

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:20:07 ; Search time 18.6667 Seconds  
(without alignments)  
53.149 Million cell updates/sec

Title: US-09-897-042-21

Perfect score: 68

Sequence: 1 KISFPEGPPKY 12

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/1aa/5 COMB.pep.\*  
2: /cgn2\_6/prodata/1/1aa/6 COMB.pep.\*  
3: /cgn2\_6/prodata/1/1aa/H COMB.pep.\*  
4: /cgn2\_6/prodata/1/1aa/PCBUS COMB.pep.\*  
5: /cgn2\_6/prodata/1/1aa/RE COMB.pep.\*  
6: /cgn2\_6/prodata/1/1aa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query %	Match Length	ID	Description
1	68	100.0	160	1	US-07-847-010-23 Sequence 23, Appl
2	57	83.8	160	1	US-07-847-010-3 Sequence 3, Appl
3	42	61.8	225	2	US-09-866-538-12 Sequence 12, Appl
4	42	61.8	225	2	US-09-865-291-12 Sequence 12, Appl
5	42	61.8	240	2	US-10-152-296-2 Sequence 2, Appl
6	41	60.3	98	2	US-09-205-658-194 Sequence 194, App
7	41	60.3	109	2	US-09-513-999C-6109 Sequence 6109, App
8	41	60.3	122	2	US-09-205-658-175 Sequence 175, App
9	41	60.3	152	2	US-09-216-430C-20 Sequence 20, Appl
10	41	60.3	153	1	US-08-748-703-1 Sequence 1, Appl
11	41	60.3	153	2	US-09-132-861-1 Sequence 16584, A
12	41	60.3	153	2	US-09-949-016-6465 Sequence 10584, A
13	41	60.3	168	2	US-09-949-016-10584 Sequence 2, Appl
14	41	60.3	621	2	US-09-331-568A-2 Sequence 26, Appl
15	41	60.3	621	2	US-09-331-568A-26 Sequence 159, App
16	41	60.3	632	2	US-09-205-658-159 Sequence 160, App
17	41	60.3	636	2	US-09-205-658-160 Sequence 1, Appl
18	40	58.8	259	1	US-08-861-269-1 Sequence 1, Appl
19	40	58.8	259	1	US-09-134-596-1 Sequence 1, Appl
20	40	58.8	259	2	US-09-293-273-1 Sequence 46828, A
21	40	58.8	284	2	US-09-270-767-46828 Sequence 7597, Ap
22	39	57.4	55	2	US-09-621-976-7597 Sequence 35, Appl
23	39	57.4	514	2	US-08-688-988-35 Sequence 3506, Ap
24	38	55.9	112	2	US-09-583-110-3506 Sequence 19957, A
25	38	55.9	350	2	US-09-248-796A-19957 Sequence 2745, Ap
26	38	55.9	435	2	US-09-107-433-2745 Sequence 34, Appl
27	38	55.9	524	2	US-08-688-988-34

ALIGNMENTS

RESULT 1

US-07-847-010-23  
; Sequence 23, Application US/07847010  
; Patent No. 5693495

GENERAL INFORMATION:

APPLICANT: Breiteneder, Heimo  
APPLICANT: Reikertorfer, Arnold  
APPLICANT: Valentia, Rudolf  
APPLICANT: Hoffmann - Sommergruber, Karin  
APPLICANT: Breitenbach, Michael  
APPLICANT: Kraft, Dietrich  
APPLICANT: Rumpold, Helmut  
APPLICANT: Scheiner, Otto  
APPLICANT: Ebner, Christof  
APPLICANT: Ferreira, Fatima  
TITLE OF INVENTION: Allergens of Alder Pollen and  
TITLE OF INVENTION: Applications Thereof  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/847,010  
FILING DATE: 01-JUN-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jones III, Harry C  
REGISTRATION NUMBER: 20,280  
REFERENCE/DOCKET NUMBER: 6530-010  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 23:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 160 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:

Sequence 10, Appl  
Sequence 5966, Ap  
Sequence 44, Appl  
Sequence 20145, A  
Sequence 4, Appl  
Sequence 18, Appl  
Sequence 22, Appl  
Sequence 25, Appl  
Sequence 25, Appl  
Sequence 4, Appl  
Sequence 4, Appl  
Sequence 7924, Ap  
Sequence 4903, Ap  
Sequence 4, Appl  
Sequence 3, Appl  
Sequence 4, Appl  
Sequence 2, Appl

```
; ORGANISM: birch (Betula sp.)
; IMMEDIATE SOURCE:
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN
US-07-847-010-23

Query Match      100.0%; Score 68; DB 1; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGPFKY 12
|:|||||:
Db 56 KISFPEGPFKY 67

RESULT 2
US-07-847-010-3
; Sequence 3, Application US/07847010
; Patent No. 5693495
; GENERAL INFORMATION:
; APPLICANT: Breiteneder, Heimo
; APPLICANT: Reikerstorfer, Arnold
; APPLICANT: Valenta, Rudolf
; APPLICANT: Hoffmann - Sommergruber, Karin
; APPLICANT: Breitenbach, Michael
; APPLICANT: Kraft, Dietrich
; APPLICANT: Rumpold, Helmut
; APPLICANT: Scheiner, Otto
; APPLICANT: Ebner, Christof
; APPLICANT: Ferreira, Fatima
; TITLE OF INVENTION: Allergens of Alder Pollen and
; TITLE OF INVENTION: Applications Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/847,010
; FILING DATE: 01-JUN-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jones III, Harry C
; REGISTRATION NUMBER: 20,280
; REFERENCE/DOCKET NUMBER: 6530-010
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 160 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Alder (Alnus sp.)
US-07-847-010-3

Query Match      83.8%; Score 57; DB 1; Length 160;
Best Local Similarity 83.3%; Pred. No. 0.015;
Matches 10; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KISFPEGPFKY 12
|:|||||:
Db 56 KISFPEGPFKY 67

; ORGANISM: birch (Betula sp.)
; IMMEDIATE SOURCE:
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN
US-07-847-010-23

Query Match      100.0%; Score 68; DB 1; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.00016;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGPFKY 12
|:|||||:
Db 56 KISFPEGPFKY 67

RESULT 3
US-09-866-538-12
; Sequence 12, Application US/09866538
; Patent No. 6852849
; GENERAL INFORMATION:
; APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TSJEN, Roger
; APPLICANT: Campbell, Robert
; TITLE OF INVENTION: NON-OLIGOMERIZING FLUORESCENT PROTEINS
; FILE REFERENCE: REGN1530-2
; CURRENT APPLICATION NUMBER: US/09/866,538
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Discosoma sp.
US-09-866-538-12

Query Match      61.8%; Score 42; DB 2; Length 225;
Best Local Similarity 63.6%; Pred. No. 9.8;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KISFPEGPFKY 11
|:|||||:
Db 84 KLSFPEGFKWE 94

RESULT 4
US-09-865-291-12
; Sequence 12, Application US/09865291
; Patent No. 6900304
; GENERAL INFORMATION:
; APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TSJEN, Roger
; APPLICANT: TING, Alice
; APPLICANT: ZHANG, Jin
; TITLE OF INVENTION: EMISSION RATIONETRIC INDICATORS OF PHOSPHORYLATION
; FILE REFERENCE: REGN1550
; CURRENT APPLICATION NUMBER: US/09/865,291
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Discosoma sp.
US-09-865-291-12

Query Match      61.8%; Score 42; DB 2; Length 225;
Best Local Similarity 63.6%; Pred. No. 9.8;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KISFPEGPFKY 11
|:|||||:
Db 84 KLSFPEGFKWE 94

RESULT 5
US-10-152-296-2
; Sequence 2, Application US/10152296
; Patent No. 6723537
; GENERAL INFORMATION:
; APPLICANT: Peelle, Beau
; APPLICANT: Rigel Pharmaceuticals, Incorporated
; TITLE OF INVENTION: Directed Evolution of Protein in Mammalian Cells
; FILE REFERENCE: 021044-000110US
; CURRENT APPLICATION NUMBER: US/10/152,296
; CURRENT FILING DATE: 2002-12-10
```

```
; PRIOR APPLICATION NUMBER: US 60/291,871
; PRIOR FILING DATE: 2001-05-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:mammalian
; OTHER INFORMATION: codon-optimized variant (DsRED) of Discosoma sp.
; OTHER INFORMATION: "red" red fluorescent protein (RFP)
US-10-152-296-2

Query Match          61.8%; Score 42; DB 2; Length 240;
Best Local Similarity 63.6%; Pred. No. 11;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 KISFPEGPPFK 11
Db      85 KLSFPEGPKWE 95

RESULT 6
US-09-205-658-194
; Sequence 194, Application US/09205658
; Patent No. 6861256
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Ogg, Scott
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/205,658
; CURRENT FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: 08/857,076
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: 08/888,534
; EARLIER FILING DATE: 1997-07-07
; EARLIER APPLICATION NUMBER: US98/10080
; EARLIER FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 194
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-205-658-194

Query Match          60.3%; Score 41; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SFPEGFP 9
Db      68 SFPEGFP 74

RESULT 7
US-09-513-999C-6109
; Sequence 6109, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
```

```
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 6109
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 105
; OTHER INFORMATION: Xaa=Leu or Pro
US-09-513-999C-6109

Query Match          60.3%; Score 41; DB 2; Length 109;
Best Local Similarity 63.6%; Pred. No. 6.5;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 KISFPEGPPFK 11
Db      54 RISFPPEYFPK 64

RESULT 8
US-09-205-658-175
; Sequence 175, Application US/09205658
; Patent No. 6861256
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Ogg, Scott
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/205,658
; CURRENT FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: 08/857,076
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: 08/888,534
; EARLIER FILING DATE: 1997-07-07
; EARLIER APPLICATION NUMBER: US98/10080
; EARLIER FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 175
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-205-658-175

Query Match          60.3%; Score 41; DB 2; Length 122;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SFPEGFP 9
Db      38 SFPEGFP 44

RESULT 9
US-09-216-430C-20
; Sequence 20, Application US/09216430C
; Patent No. 6734283
; GENERAL INFORMATION:
; APPLICANT: Chau, Vincent
; TITLE OF INVENTION: Human Proteins Responsible for NEDD8 Activation and Conjugation
; FILE REFERENCE: 103576-127
; CURRENT APPLICATION NUMBER: US/09/216,430C
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: PCT/US98/27141
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: US 60/068,209
; PRIOR FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
```

;  
; LENGTH: 152  
; TYPE: PRT  
; ORGANISM: Human  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(152)  
; OTHER INFORMATION: Ubch8  
US-09-216-430C-20

Query Match 60.3%; Score 41; DB 2; Length 152;  
Best Local Similarity 63.6%; Pred. No. 9.5;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KISFPEGPFK 11  
:||||:||||  
Db 53 RISFPPEYPFK 63

RESULT 10  
US-08-748-703-1  
; Sequence 1, Application US/08748703  
; Patent No. 5847094  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL UBCH7-LIKE UBIQUITIN-CONJUGATING  
; TITLE OF INVENTION: ENZYME  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/748,703  
; FILING DATE: Herewith  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0161 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 153 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: Consensus  
; CLONE: Consensus  
US-08-748-703-1

Query Match 60.3%; Score 41; DB 1; Length 153;  
Best Local Similarity 63.6%; Pred. No. 9.5;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KISFPEGPFK 11  
:||||:||||  
Db 54 RISFPPEYPFK 64

RESULT 11  
US-09-132-861-1  
; Sequence 1, Application US/09132861  
; Patent No. 6124123  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL UBCH7-LIKE UBIQUITIN-CONJUGATING  
; TITLE OF INVENTION: ENZYME  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/132,861  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0161 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 153 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: Consensus  
; CLONE: Consensus  
US-09-132-861-1

Query Match 60.3%; Score 41; DB 2; Length 153;  
Best Local Similarity 63.6%; Pred. No. 9.5;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KISFPEGPFK 11  
:||||:||||  
Db 54 RISFPPEYPFK 64

RESULT 12  
US-09-949-016-6465  
; Sequence 6465, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
US-09-949-016-6465

Query Match 60.3%; Score 41; DB 1; Length 153;  
Best Local Similarity 63.6%; Pred. No. 9.5;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KISFPEGPFK 11  
:||||:||||  
Db 54 RISFPPEYPFK 64

RESULT 11  
US-09-132-861-1  
; Sequence 1, Application US/09132861  
; Patent No. 6124123  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL UBCH7-LIKE UBIQUITIN-CONJUGATING  
; TITLE OF INVENTION: ENZYME  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/132,861  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/748,703  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0161 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 153 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: Consensus  
; CLONE: Consensus  
US-09-132-861-1

Query Match 60.3%; Score 41; DB 2; Length 153;  
Best Local Similarity 63.6%; Pred. No. 9.5;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 KISFPEGPFK 11  
:||||:||||  
Db 54 RISFPPEYPFK 64

RESULT 12  
US-09-949-016-6465  
; Sequence 6465, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
US-09-949-016-6465

```
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6465
; LENGTH: 153
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6465
```

```
Query Match 60.3%; Score 41; DB 2; Length 153;
Best Local Similarity 63.6%; Pred. No. 9.5;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KISFPEGFPFK 11
Db 54 RISFPEYFPK 64
```

```
RESULT 13
US-09-949-016-10584
; Sequence 10584, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10584
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10584
```

```
Query Match 60.3%; Score 41; DB 2; Length 168;
Best Local Similarity 63.6%; Pred. No. 11;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KISFPEGFPFK 11
Db 69 RISFPEYFPK 79
```

```
RESULT 14
US-09-331-568A-2
; Sequence 2, Application US/09331568A
; Patent No. 6570004
; GENERAL INFORMATION:
; APPLICANT: Martin J. Blaser
; APPLICANT: Mikio Karita
; TITLE OF INVENTION: dape GENE OF HELICOBACTER PYLORI AND
; MUTANT STRAINS OF HELICOBACTER PYLORI
; FILE REFERENCE: 22000.0072
; CURRENT APPLICATION NUMBER: US/09/331.568A
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: PCT/US97/24147
; PRIOR FILING DATE: 1997-12-23
; PRIOR APPLICATION NUMBER: 60/033,824
; PRIOR FILING DATE: 1996-12-23
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
```

```
; LENGTH: 621
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:\No. 6570004e =
; OTHER INFORMATION: synthetic construct
US-09-331-568A-2
```

```
Query Match 60.3%; Score 41; DB 2; Length 621;
Best Local Similarity 63.6%; Pred. No. 46;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KISFPEGFPFK 11
Db 563 KVSIPKGFVFK 573
```

```
RESULT 15
US-09-331-568A-26
; Sequence 26, Application US/09331568A
; Patent No. 6570004
; GENERAL INFORMATION:
; APPLICANT: Martin J. Blaser
; APPLICANT: Mikio Karita
; TITLE OF INVENTION: dape GENE OF HELICOBACTER PYLORI AND
; MUTANT STRAINS OF HELICOBACTER PYLORI
; FILE REFERENCE: 22000.0072
; CURRENT APPLICATION NUMBER: US/09/331,568A
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: PCT/US97/24147
; PRIOR FILING DATE: 1997-12-23
; PRIOR APPLICATION NUMBER: 60/033,824
; PRIOR FILING DATE: 1996-12-23
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 621
; TYPE: PRT
; ORGANISM: H. pylori
US-09-331-568A-26
```

```
Query Match 60.3%; Score 41; DB 2; Length 621;
Best Local Similarity 63.6%; Pred. No. 46;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 KISFPEGFPFK 11
Db 563 KVSIPKGFVFK 573
```

```
Search completed: January 28, 2006, 06:24:31
Job time : 19.6667 secs
```

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**



```

; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26
; LENGTH: 289
; TYPE: PRT
; ORGANISM: tat-Ii-bet v 1
US-11-102-883-26

Query Match      100.0%; Score 64; DB 7; Length 289;
Best Local Similarity 100.0%; Pred. No. 0.0002;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TIKKISFPEGPP 12
Db 182 TIKKISFPEGPP 193

RESULT 3
US-11-102-883-6
; Sequence 6, Application US/11102883
; Publication No. US20050281816A1
; GENERAL INFORMATION:
; APPLICANT: Lamping, Norbert
; APPLICANT: Cramer, Reto
; APPLICANT: Fluckiger, Sabina
; APPLICANT: Daigle, Isabelle
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus + Homo sapiens + Betula verrucosa
US-11-102-883-6

Query Match      100.0%; Score 64; DB 7; Length 300;
Best Local Similarity 100.0%; Pred. No. 0.0002;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TIKKISFPEGPP 12
Db 193 TIKKISFPEGPP 204

RESULT 4
US-10-209-208-1
; Sequence 1, Application US/10209208
; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; TITLE OF INVENTION: FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DaRed polypeptide variant "T1"
US-10-209-208-4

Query Match      71.9%; Score 46; DB 6; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91

RESULT 5
US-10-209-208-4
; Sequence 4, Application US/10209208
; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; TITLE OF INVENTION: FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DaRed polypeptide variant "T1"
US-10-209-208-4

Query Match      71.9%; Score 46; DB 6; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91

RESULT 6
US-10-209-208-20
; Sequence 20, Application US/10209208
; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird

```



;; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS

;; TITLE OF INVENTION: FOR MAKING SAME

;; FILE REFERENCE: UC083.1CP2CP2

;; CURRENT APPLICATION NUMBER: US/10/209,208

;; CURRENT FILING DATE: 2002-07-29

;; PRIOR APPLICATION NUMBER: 10/121,258

;; PRIOR FILING DATE: 2002-04-10

;; PRIOR APPLICATION NUMBER: 09/866,538

;; PRIOR FILING DATE: 2001-05-24

;; PRIOR APPLICATION NUMBER: 09/794,308

;; PRIOR FILING DATE: 2001-02-26

;; NUMBER OF SEQ ID NOS: 80

;; SOFTWARE: FastSeq for Windows Version 4.0

;; SEQ ID NO 20

;; LENGTH: 225

;; TYPE: PRT

;; ORGANISM: Artificial Sequence

;; FEATURE:

;; OTHER INFORMATION: DsRed with I125R

US-10-209-208-20

Query Match 71.9%; Score 46; DB 6; Length 225;

Best Local Similarity 88.9%; Pred. No. 0.24;

Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KKISFPEGF 11

||:|||||

Db 83 KKLSFPEGF 91

RESULT 7

US-10-209-208-24

;; Sequence 24, Application US/10209208

;; Publication No. US20050244921A1

;; GENERAL INFORMATION:

;; APPLICANT: Tsien, Roger

;; APPLICANT: Campbell, Robert

;; APPLICANT: Geoffrey Baird

;; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS

;; TITLE OF INVENTION: FOR MAKING SAME

;; FILE REFERENCE: UC083.1CP2CP2

;; CURRENT APPLICATION NUMBER: US/10/209,208

;; CURRENT FILING DATE: 2002-07-29

;; PRIOR APPLICATION NUMBER: 10/121,258

;; PRIOR FILING DATE: 2002-04-10

;; PRIOR APPLICATION NUMBER: 09/866,538

;; PRIOR FILING DATE: 2001-05-24

;; PRIOR APPLICATION NUMBER: 09/794,308

;; PRIOR FILING DATE: 2001-02-26

;; NUMBER OF SEQ ID NOS: 80

;; SOFTWARE: FastSeq for Windows Version 4.0

;; SEQ ID NO 24

;; LENGTH: 225

;; TYPE: PRT

;; ORGANISM: Artificial Sequence

;; FEATURE:

;; OTHER INFORMATION: DsRed polypeptide variant "T1" with I125R mutation

US-10-209-208-24

Query Match 71.9%; Score 46; DB 6; Length 225;

Best Local Similarity 88.9%; Pred. No. 0.24;

Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KKISFPEGF 11

||:|||||

Db 83 KKLSFPEGF 91

RESULT 8

US-11-218-880-1

;; Sequence 1, Application US/11218880

;; Publication No. US20060003420A1

;; GENERAL INFORMATION:

;; APPLICANT: Tsien, Roger

;; APPLICANT: Campbell, Robert

;; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT

;; TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME

;; FILE REFERENCE: UC083.1CP2CP1

;; CURRENT APPLICATION NUMBER: US/11/218,880

;; CURRENT FILING DATE: 2005-09-01

;; PRIOR APPLICATION NUMBER: US/10/121,258

;; PRIOR FILING DATE: 2002-04-10

;; PRIOR APPLICATION NUMBER: 09/794,308

;; PRIOR FILING DATE: 2001-02-26

;; PRIOR APPLICATION NUMBER: 09/866,538

;; PRIOR FILING DATE: 2001-05-24

;; NUMBER OF SEQ ID NOS: 78

;; SOFTWARE: FastSeq for Windows Version 4.0

;; SEQ ID NO 1

;; LENGTH: 225

;; TYPE: PRT

;; ORGANISM: Discosoma sp.

;; FEATURE:

;; NAME/KEY: misc feature

;; LOCATION: (1)---(225)

;; OTHER INFORMATION: wild-type DsRed

US-11-218-880-1

Query Match 71.9%; Score 46; DB 7; Length 225;

Best Local Similarity 88.9%; Pred. No. 0.24;

Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KKISFPEGF 11

||:|||||

Db 83 KKLSFPEGF 91

RESULT 9

US-11-218-880-4

;; Sequence 4, Application US/11218880

;; Publication No. US20060003420A1

;; GENERAL INFORMATION:

;; APPLICANT: Tsien, Roger

;; APPLICANT: Campbell, Robert

;; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT

;; TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME

;; FILE REFERENCE: UC083.1CP2CP1

;; CURRENT APPLICATION NUMBER: US/11/218,880

;; CURRENT FILING DATE: 2005-09-01

;; PRIOR APPLICATION NUMBER: US/10/121,258

;; PRIOR FILING DATE: 2002-04-10

;; PRIOR APPLICATION NUMBER: 09/794,308

;; PRIOR FILING DATE: 2001-02-26

;; PRIOR APPLICATION NUMBER: 09/866,538

;; PRIOR FILING DATE: 2001-05-24

;; NUMBER OF SEQ ID NOS: 78

;; SOFTWARE: FastSeq for Windows Version 4.0

;; SEQ ID NO 4

;; LENGTH: 225

;; TYPE: PRT

;; ORGANISM: Artificial Sequence

;; FEATURE:

;; OTHER INFORMATION: DsRed polypeptide variant "T1"

US-11-218-880-4

Query Match 71.9%; Score 46; DB 7; Length 225;

Best Local Similarity 88.9%; Pred. No. 0.24;

Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KKISFPEGF 11

||:|||||

Db 83 KKLSFPEGF 91

RESULT 10

US-11-218-880-20

```
; Sequence 20, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CPI
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DaRed with I125R
US-11-218-880-20

Query Match 71.9%; Score 46; DB 7; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91

RESULT 11
US-11-218-880-24
; Sequence 24, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CPI
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DaRed polypeptide variant "T1" with I125R mutation
US-11-218-880-24

Query Match 71.9%; Score 46; DB 7; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91

RESULT 12
US-11-218-880-24
; Sequence 20, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CPI
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DaRed polypeptide variant "T1" with I125R mutation
US-11-218-880-20

Query Match 71.9%; Score 46; DB 7; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91

RESULT 13
US-11-100-988-3
; Sequence 3, Application US/11100988
; Publication No. US20060008878A1
; GENERAL INFORMATION:
; APPLICANT: Bevis, Brooke
; APPLICANT: Strongin, Daniel E.
; APPLICANT: Baker, David
; APPLICANT: Scalley-Kim, Michelle
; TITLE OF INVENTION: MONOMERIC RED FLUORESCENT PROTEINS
; FILE REFERENCE: 092234-9002-US01
; CURRENT APPLICATION NUMBER: US/11/100,988
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: US 60/560,340
; PRIOR FILING DATE: 2004-04-07
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: rapidly maturing DaRed.T4 red fluorescent protein based on
US-11-100-988-3

Query Match 71.9%; Score 46; DB 7; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91

RESULT 14
US-10-209-208-6
; Sequence 6, Application US/10209208
US-11-100-988-2
; Sequence 2, Application US/11100988
; Publication No. US20060008878A1
; GENERAL INFORMATION:
; APPLICANT: Bevis, Brooke
; APPLICANT: Strongin, Daniel E.
; APPLICANT: Baker, David
; APPLICANT: Scalley-Kim, Michelle
; TITLE OF INVENTION: MONOMERIC RED FLUORESCENT PROTEINS
; FILE REFERENCE: 092234-9002-US01
; CURRENT APPLICATION NUMBER: US/11/100,988
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: US 60/560,340
; PRIOR FILING DATE: 2004-04-07
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: wild-type red fluorescent protein based on Discosoma species
US-11-100-988-2

Query Match 71.9%; Score 46; DB 7; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.24;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91
```

Job time : 12.3333 secs

```
; Publication No. US2005024921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; TITLE OF INVENTION: FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DsRed polypeptide variant "dimer2"
US-10-209-208-6
```

Query Match 71.9%; Score 46; DB 6; Length 226;  
Best Local Similarity 88.9%; Pred. No. 0.24;  
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11  
||:|||||  
Db 84 KKLSPFEGF 92

```
RESULT 15
US-11-218-880-6
; Sequence 6, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DsRed polypeptide variant "dimer2"
US-11-218-880-6
```

Query Match 71.9%; Score 46; DB 7; Length 226;  
Best Local Similarity 88.9%; Pred. No. 0.24;  
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 KKISFPEGF 11  
||:|||||  
Db 84 KKLSPFEGF 92

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (C) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:23:08 ; Search time 79.6667 Seconds  
(without alignments)  
62.937 Million cell updates/sec

Title: US-09-897-042-20  
Perfect score: 64  
Sequence: 1 TIKKISPEGFP 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA\_Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	64	100.0	12	3	US-09-897-042-20
2	64	100.0	31	4	Sequence 20, Appli
3	64	100.0	125	5	Sequence 3, Appli
4	64	100.0	159	3	Sequence 5, Appli
5	64	100.0	159	3	Sequence 1, Appli
6	64	100.0	159	3	Sequence 34, Appli
7	64	100.0	159	3	Sequence 38, Appli
8	64	100.0	159	3	Sequence 40, Appli
9	64	100.0	159	3	Sequence 6, Appli
10	64	100.0	159	4	Sequence 47, Appli
11	64	100.0	160	4	Sequence 2, Appli
12	64	100.0	160	4	Sequence 3, Appli
13	64	100.0	160	4	Sequence 4, Appli
14	64	100.0	160	4	Sequence 5, Appli
15	64	100.0	160	4	Sequence 6, Appli
16	64	100.0	160	4	Sequence 7, Appli
17	64	100.0	160	5	Sequence 8, Appli
18	64	100.0	160	5	Sequence 7, Appli
19	64	100.0	161	4	Sequence 87, Appli
20	64	100.0	161	4	Sequence 44, Appli
21	64	100.0	161	4	Sequence 45, Appli
22	64	100.0	195	5	Sequence 45, Appli
23	61	95.3	159	3	Sequence 20, Appli
24	61	95.3	159	3	Sequence 36, Appli
25	61	95.3	159	3	Sequence 39, Appli
26	58	90.6	159	3	Sequence 42, Appli
27	58	90.6	159	4	Sequence 37, Appli

28	58	90.6	159	4	US-10-001-245-3	Sequence 3, Appli
29	58	90.6	159	4	US-10-001-245-4	Sequence 4, Appli
30	58	90.6	159	4	US-10-001-245-5	Sequence 5, Appli
31	58	90.6	159	4	US-10-001-245-9	Sequence 9, Appli
32	58	90.6	159	4	US-10-001-245-92	Sequence 92, Appli
33	58	90.6	159	4	US-10-719-553-37	Sequence 37, Appli
34	58	90.6	159	4	US-10-698-855-5	Sequence 5, Appli
35	58	90.6	160	4	US-10-001-245-1	Sequence 1, Appli
36	58	90.6	160	4	US-10-001-245-6	Sequence 6, Appli
37	58	90.6	160	4	US-10-001-245-7	Sequence 7, Appli
38	58	90.6	160	4	US-10-001-245-8	Sequence 8, Appli
39	58	90.6	160	4	US-10-001-245-10	Sequence 10, Appli
40	58	90.6	160	4	US-10-001-245-11	Sequence 11, Appli
41	58	90.6	160	4	US-10-001-245-12	Sequence 12, Appli
42	58	90.6	160	4	US-10-440-516-1	Sequence 1, Appli
43	58	90.6	160	4	US-10-440-516-11	Sequence 11, Appli
44	58	90.6	160	4	US-10-440-516-12	Sequence 12, Appli
45	58	90.6	160	4	US-10-440-516-15	Sequence 15, Appli

ALIGNMENTS

RESULT 1  
US-09-897-042-20  
; Sequence 20, Application US/09897042  
; Patent No. US20020018779A1  
; GENERAL INFORMATION:  
; APPLICANT: VALENTA, Rudolf  
; APPLICANT: VRTAJA, Susanne  
; APPLICANT: VANGELISTA, Luca  
; APPLICANT: EICHLER, Hans-Georg  
; APPLICANT: SPERR, Wolfgang R.  
; APPLICANT: VALENT, Peter  
; APPLICANT: EBNER, Christof  
; APPLICANT: KRAFT, Dietrich  
; APPLICANT: GRONLUND, Hans  
; TITLE OF INVENTION: NON-ANAPHYLACTIC FORMS OF ALLERGENS AND THEIR USE  
; FILE REFERENCE: 1614-251P  
; CURRENT APPLICATION NUMBER: US/09/897,042  
; CURRENT FILING DATE: 2001-07-07  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 20  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Betula sp.  
US-09-897-042-20

Query Match 100.0%; Score 64; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.00031;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TIKKISPEGFP 12  
Db 1 TIKKISPEGFP 12

RESULT 2  
US-10-026-911-3  
; Sequence 3, Application US/10026911  
; Publication No. US20030078201A1  
; GENERAL INFORMATION:  
; APPLICANT: Focke, Margarete  
; APPLICANT: Mahler, Vera  
; APPLICANT: Sperr, Wolfgang R.  
; APPLICANT: Valent, Peter  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Valenta, Rudolf  
; TITLE OF INVENTION: Allergy Vaccines and Their Preparation  
; FILE REFERENCE: 0273-0005  
; CURRENT APPLICATION NUMBER: US/10/026,911  
; CURRENT FILING DATE: 2002-07-24

```
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: solvent-exposed peptide
US-10-026-911-3

Query Match      100.0%; Score 64; DB 4; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00086;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 5 TIKKISFPEGFP 16

RESULT 3
US-10-799-514-5
; Sequence 5, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; PRIOR FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-5

Query Match      100.0%; Score 64; DB 5; Length 125;
Best Local Similarity 100.0%; Pred. No. 0.0038;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 53 TIKKISFPEGFP 64

RESULT 4
US-09-981-009B-1
; Sequence 1, Application US/09981009B
; Publication No. US20030041354A1
; GENERAL INFORMATION:
; APPLICANT: Kjaerulf, Soren
; APPLICANT: Roggen, Erwin
; TITLE OF INVENTION: Transgenic Plants
; FILE REFERENCE: 10082.200-US
; CURRENT APPLICATION NUMBER: US/09/981,009B
; CURRENT FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-981-009B-1

Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 52 TIKKISFPEGFP 63

RESULT 5
US-09-847-208-34
; Sequence 34, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-34

Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 52 TIKKISFPEGFP 63

RESULT 6
US-09-847-208-38
; Sequence 38, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-38

Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 52 TIKKISFPEGFP 63

RESULT 7
US-09-847-208-40
; Sequence 40, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: AGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 177
; SEQ ID NO 40
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-40

Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TIKKISFPEGFP 12
Db      52 TIKKISFPEGFP 63

RESULT 8
US-09-957-806A-6
; Sequence 6, Application US/09957806A
; Publication No. US20050181446A1
; GENERAL INFORMATION:
; APPLICANT: Roggen, Erwin
; APPLICANT: Ernst, Steffen
; APPLICANT: Svendsen, Allan
; APPLICANT: Friis, Esben
; APPLICANT: Osten, Claus
; TITLE OF INVENTION: PROTEIN VARIANTS HAVING MODIFIED IMMUNOGENICITY
; FILE REFERENCE: 10021.204-US
; CURRENT APPLICATION NUMBER: US/09/957,806A
; CURRENT FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-957-806A-6

Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TIKKISFPEGFP 12
Db      52 TIKKISFPEGFP 63

RESULT 9
US-10-440-516-47
; Sequence 47, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 47
; LENGTH: 159
```

```
; TYPE: PRT
; ORGANISM: Betula verrucosa
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(159)
; OTHER INFORMATION: Point mutated Bet v 1 allergen (amino acid deletion of residue
; OTHER INFORMATION: G111)
US-10-440-516-47

Query Match      100.0%; Score 64; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TIKKISFPEGFP 12
Db      52 TIKKISFPEGFP 63

RESULT 10
US-10-440-516-2
; Sequence 2, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Betula verrucosa
US-10-440-516-2

Query Match      100.0%; Score 64; DB 4; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TIKKISFPEGFP 12
Db      53 TIKKISFPEGFP 64

RESULT 11
US-10-440-516-3
; Sequence 3, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Betula verrucosa
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(160)
; OTHER INFORMATION: Point mutated Bet v 1 allergen
US-10-440-516-3
```

Query Match 100.0%; Score 64; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0049;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGPP 12  
DB 52 TIKKISFPEGPP 63

RESULT 12  
US-10-440-516-4  
; Sequence 4, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 4  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-4

Query Match 100.0%; Score 64; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0049;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGPP 12  
DB 52 TIKKISFPEGPP 63

RESULT 13  
US-10-440-516-5  
; Sequence 5, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 5  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-5

Query Match 100.0%; Score 64; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0049;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGPP 12

Db 52 TIKKISFPEGPP 63

RESULT 14  
US-10-440-516-6  
; Sequence 6, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 6  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-6

Query Match 100.0%; Score 64; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0049;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGPP 12  
DB 52 TIKKISFPEGPP 63

RESULT 15  
US-10-440-516-7  
; Sequence 7, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 7  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-7

Query Match 100.0%; Score 64; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0049;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGPP 12  
DB 52 TIKKISFPEGPP 63

Search completed: January 28, 2006, 06:43:58



Job time : 79.6667 secs

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:20:07 ; Search time 18.6667 Seconds  
(without alignments)  
53.149 Million cell updates/sec

Title: US-09-897-042-20  
Perfect score: 64  
Sequence: 1 TIKKISFEGFP 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/iaa/5 COMB.pep.\*  
2: /cgn2\_6/prodata/1/iaa/6 COMB.pep.\*  
3: /cgn2\_6/prodata/1/iaa/H COMB.pep.\*  
4: /cgn2\_6/prodata/1/iaa/ECTUS COMB.pep.\*  
5: /cgn2\_6/prodata/1/iaa/RE COMB.pep.\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	64	100.0	160	1	US-07-847-010-23
2	53	82.8	160	1	US-07-847-010-3
3	46	71.9	225	2	US-09-866-538-12
4	46	71.9	225	2	US-09-865-291-12
5	46	71.9	240	2	US-10-152-296-2
6	45	70.3	431	2	US-09-248-796A-14528
7	42	65.6	514	2	US-08-688-988-35
8	41.5	64.8	98	2	US-09-205-658-194
9	41.5	64.8	122	2	US-09-205-658-175
10	41.5	64.8	632	2	US-09-205-658-159
11	41.5	64.8	636	2	US-09-205-658-160
12	40	62.5	414	2	US-09-489-847-273
13	40	62.5	434	1	US-08-823-516-145
14	40	62.5	434	2	US-09-244-145
15	40	62.5	434	2	US-09-381-212-145
16	40	62.5	434	2	US-09-713-601A-145
17	40	62.5	443	2	US-09-489-847-271
18	40	62.5	709	2	US-09-489-847-132
19	39	60.9	384	2	US-09-107-532A-5318
20	38	59.4	300	2	US-09-134-000C-5262
21	37	57.8	247	2	US-09-902-540-13351
22	37	57.8	318	2	US-09-248-796A-14142
23	37	57.8	324	2	US-09-705-534-4
24	37	57.8	415	2	US-09-252-991A-26760
25	37	57.8	524	2	US-08-688-988-34
26	37	57.8	525	2	US-08-688-988-10
27	37	57.8	793	1	US-08-468-558-5

28	37	57.8	793	2	US-08-676-444-5	Sequence 5, Appli
29	37	57.8	1751	2	US-09-136-574A-44	Sequence 44, Appl
30	36	56.2	158	2	US-08-964-722-2	Sequence 2, Appl
31	36	56.2	163	2	US-09-861-451A-44	Sequence 44, Appl
32	36	56.2	310	1	US-08-129-456A-37	Sequence 37, Appl
33	36	56.2	312	2	US-08-360-821B-36	Sequence 36, Appl
34	36	56.2	312	2	US-09-851-026-36	Sequence 36, Appl
35	36	56.2	320	2	US-09-949-016-7144	Sequence 7144, Ap
36	35	54.7	94	2	US-09-198-452A-1212	Sequence 1212, Ap
37	35	54.7	105	2	US-09-438-185A-611	Sequence 611, App
38	35	54.7	111	2	US-09-149-476-340	Sequence 340, App
39	35	54.7	125	2	US-09-599-360B-8	Sequence 8, Appli
40	35	54.7	125	2	US-09-599-360B-110	Sequence 110, App
41	35	54.7	154	1	US-08-363-010-1	Sequence 1, Appli
42	35	54.7	154	1	US-08-911-434A-4	Sequence 4, Appli
43	35	54.7	185	2	US-09-583-110-2898	Sequence 2898, Ap
44	35	54.7	196	2	US-09-107-433-5167	Sequence 5167, Ap
45	35	54.7	372	2	US-09-328-352-5345	Sequence 5345, Ap

ALIGNMENTS

RESULT 1  
US-07-847-010-23  
; Sequence 23, Application US/07847010  
; Patent No. 5693495  
; GENERAL INFORMATION:  
; APPLICANT: Breiteneder, Heimo  
; APPLICANT: Reikerstorfer, Arnold  
; APPLICANT: Valentia, Rudolf  
; APPLICANT: Hoffmann - Sommergruber, Karin  
; APPLICANT: Breitenbach, Michael  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Rumpold, Helmut  
; APPLICANT: Scheiner, Otto  
; APPLICANT: Emer, Christof  
; APPLICANT: Ferreira, Fatima  
; TITLE OF INVENTION: Allergens of Alder Pollen and  
; TITLE OF INVENTION: Applications Thereof  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/847,010  
; FILING DATE: 01-JUN-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jones III, Harry C  
; REGISTRATION NUMBER: 20,280  
; REFERENCE/DOCKET NUMBER: 6530-010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 160 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORIGINAL SOURCE:

```
; ORGANISM: birch (Betula sp.)
; IMMEDIATE SOURCE:
; LIBRARY: POLLEN FROM ALLERGO AB, ENGELHOLM, SWEDEN
US-07-847-010-23

Query Match          100.0%; Score 64; DB 1; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.00029;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 53 TIKKISFPEGFP 64
|||||

RESULT 2
US-07-847-010-3
; Sequence 3, Application US/07847010
; Patent No. 5693495
; GENERAL INFORMATION:
; APPLICANT: Breiteneder, Heimo
; APPLICANT: Reikerstorfer, Arnold
; APPLICANT: Valenta, Rudolf
; APPLICANT: Hoffmann - Sommergruber, Karin
; APPLICANT: Breitenbach, Michael
; APPLICANT: Kraft, Dietrich
; APPLICANT: Rumpold, Helmut
; APPLICANT: Scheiner, Otto
; APPLICANT: Ebner, Christof
; APPLICANT: Ferreira, Fatima
; TITLE OF INVENTION: Allergens of Alder Pollen and
; TITLE OF INVENTION: Applications Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/847,010
; FILING DATE: 01-JUN-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jones III, Harry C.
; REGISTRATION NUMBER: 20,280
; REFERENCE/DOCKET NUMBER: 6530-010
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 160 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Alder (Alnus sp.)
US-07-847-010-3

Query Match          82.8%; Score 53; DB 1; Length 160;
Best Local Similarity 83.3%; Pred. No. 0.0033;
Matches 10; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 53 TIKKISFPEGFP 64
|||||

; ORGANISM: birch (Betula sp.)
; IMMEDIATE SOURCE:
; LIBRARY: POLLEN FROM ALLERGO AB, ENGELHOLM, SWEDEN
US-07-847-010-23

Query Match          100.0%; Score 64; DB 1; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.00029;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TIKKISFPEGFP 12
Db 53 TIKKISFPEGFP 64
|||||

RESULT 3
US-09-866-538-12
; Sequence 12, Application US/09866538
; Patent No. 6852849
; GENERAL INFORMATION:
; APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TSJEN, Roger
; APPLICANT: Campbell, Robert
; TITLE OF INVENTION: NON-OLIGOMERIZING FLUORESCENT PROTEINS
; FILE REFERENCE: REGEN1530-2
; CURRENT APPLICATION NUMBER: US/09/866,538
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Discosoma sp.
US-09-866-538-12

Query Match          71.9%; Score 46; DB 2; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.97;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91
|||||

RESULT 4
US-09-865-291-12
; Sequence 12, Application US/09865291
; Patent No. 690304
; GENERAL INFORMATION:
; APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TSJEN, Roger
; APPLICANT: TING, Alice
; APPLICANT: ZHANG, Jin
; TITLE OF INVENTION: EMISSION RATIONETRIC INDICATORS OF PHOSPHORYLATION
; FILE REFERENCE: REGEN1550
; CURRENT APPLICATION NUMBER: US/09/865,291
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 12
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Discosoma sp.
US-09-865-291-12

Query Match          71.9%; Score 46; DB 2; Length 225;
Best Local Similarity 88.9%; Pred. No. 0.97;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 KKISFPEGF 11
Db 83 KKLSFPEGF 91
|||||

RESULT 5
US-10-152-296-2
; Sequence 2, Application US/10152296
; Patent No. 6723537
; GENERAL INFORMATION:
; APPLICANT: Feelle, Beau
; APPLICANT: Rigel Pharmaceuticals, Incorporated
; TITLE OF INVENTION: Directed Evolution of Protein in Mammalian Cells
; FILE REFERENCE: 021044-000110US
; CURRENT APPLICATION NUMBER: US/10/152,296
; CURRENT FILING DATE: 2002-12-10
```

```
; PRIOR APPLICATION NUMBER: US 60/291,871
; PRIOR FILING DATE: 2001-05-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:mammalian
; OTHER INFORMATION: codon-optimized variant (Dered) of discosoma sp.
; OTHER INFORMATION: "red" red fluorescent protein (RFP)
US-10-152-296-2

Query Match          71.9%; Score 46; DB 2; Length 240;
Best Local Similarity 88.9%; Pred. No. 1;
Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 KKISFPEGF 11
Db      84 KKLSPPEGF 92

RESULT 6
US-09-248-796A-14528
; Sequence 14528, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 14528
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-14528

Query Match          70.3%; Score 45; DB 2; Length 431;
Best Local Similarity 66.7%; Pred. No. 3.1;
Matches 8; Conservative 2; Mismatches 2; Indels 2; Gaps 0;

QY      1 TIKKISFPEGFP 12
Db      117 TIRKETLPEGFP 128

RESULT 7
US-08-688-988-35
; Sequence 35, Application US/08688988B
; Patent No. 6096545
; GENERAL INFORMATION:
; APPLICANT: Lefebvre, Daniel D.
; APPLICANT: Malboobi, Mohammad A.
; TITLE OF INVENTION: PHOSPHATE STARVATION-INDUCIBLE PROTEINS
; FILE REFERENCE: PPL96-03
; CURRENT APPLICATION NUMBER: US/08/688,988B
; CURRENT FILING DATE: 1996-07-31
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Brassica napus
US-08-688-988-35
```

```
Query Match          65.6%; Score 42; DB 2; Length 514;
Best Local Similarity 63.6%; Pred. No. 14;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 TIKKISFPEGF 11
Db      32 TLRSASFPEGF 42

RESULT 8
US-09-205-658-194
; Sequence 194, Application US/09205658
; Patent No. 6861256
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Ogg, Scott
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/205,658
; CURRENT FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: 08/857,076
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: 08/888,534
; EARLIER FILING DATE: 1997-07-07
; EARLIER APPLICATION NUMBER: US98/10080
; EARLIER FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 194
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-205-658-194

Query Match          64.8%; Score 41.5; DB 2; Length 98;
Best Local Similarity 56.2%; Pred. No. 2.6;
Matches 9; Conservative 2; Mismatches 0; Indels 5; Gaps 1;

QY      2 IKKI-----SFPEGFP 12
Db      59 LKRIQLDFSPPEGFP 74

RESULT 9
US-09-205-658-175
; Sequence 175, Application US/09205658
; Patent No. 6861256
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Ogg, Scott
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS
; FILE REFERENCE: 00786/351004
; CURRENT APPLICATION NUMBER: US/09/205,658
; CURRENT FILING DATE: 1998-12-03
; EARLIER APPLICATION NUMBER: 08/857,076
; EARLIER FILING DATE: 1997-05-15
; EARLIER APPLICATION NUMBER: 08/888,534
; EARLIER FILING DATE: 1997-07-07
; EARLIER APPLICATION NUMBER: US98/10080
; EARLIER FILING DATE: 1998-05-15
; NUMBER OF SEQ ID NOS: 328
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 175
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-205-658-175

Query Match          64.8%; Score 41.5; DB 2; Length 122;
Best Local Similarity 56.2%; Pred. No. 3.4;
Matches 9; Conservative 2; Mismatches 0; Indels 5; Gaps 1;
```

QY 2 IKKI-----SPFEGFP 12  
:|:| | | | | | | |  
Db 29 LKRIQLDFSPFEGFP 44

RESULT 10  
US-09-205-658-159  
; Sequence 159, Application US/09205658  
; Patent No. 6861256  
; GENERAL INFORMATION:  
; APPLICANT: Ruvkun, Gary  
; APPLICANT: Ogg, Scott  
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR  
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS  
; FILE REFERENCE: 00786/351004  
; CURRENT APPLICATION NUMBER: US/09/205,658  
; CURRENT FILING DATE: 1998-12-03  
; EARLIER APPLICATION NUMBER: 08/857,076  
; EARLIER FILING DATE: 1997-05-15  
; EARLIER APPLICATION NUMBER: 08/888,534  
; EARLIER FILING DATE: 1997-07-07  
; EARLIER APPLICATION NUMBER: US98/10080  
; EARLIER FILING DATE: 1998-05-15  
; NUMBER OF SEQ ID NOS: 328  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 159  
; LENGTH: 632  
; TYPE: PRT  
; ORGANISM: Caenorhabditis elegans  
US-09-205-658-159

Query Match 64.8%; Score 41.5; DB 2; Length 632;  
Best Local Similarity 56.2%; Pred. No. 21;  
Matches 9; Conservative 2; Mismatches 0; Indels 5; Gaps 1;

QY 2 IKKI-----SPFEGFP 12  
:|:| | | | | | | |  
Db 317 LKRIQLDFSPFEGFP 332

RESULT 11  
US-09-205-658-160  
; Sequence 160, Application US/09205658  
; Patent No. 6861256  
; GENERAL INFORMATION:  
; APPLICANT: Ruvkun, Gary  
; APPLICANT: Ogg, Scott  
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR  
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS  
; FILE REFERENCE: 00786/351004  
; CURRENT APPLICATION NUMBER: US/09/205,658  
; CURRENT FILING DATE: 1998-12-03  
; EARLIER APPLICATION NUMBER: 08/857,076  
; EARLIER FILING DATE: 1997-05-15  
; EARLIER APPLICATION NUMBER: 08/888,534  
; EARLIER FILING DATE: 1997-07-07  
; EARLIER APPLICATION NUMBER: US98/10080  
; EARLIER FILING DATE: 1998-05-15  
; NUMBER OF SEQ ID NOS: 328  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 160  
; LENGTH: 636  
; TYPE: PRT  
; ORGANISM: Caenorhabditis elegans  
US-09-205-658-160

Query Match 64.8%; Score 41.5; DB 2; Length 636;  
Best Local Similarity 56.2%; Pred. No. 21;  
Matches 9; Conservative 2; Mismatches 0; Indels 5; Gaps 1;

QY 2 IKKI-----SPFEGFP 12  
:|:| | | | | | | |

Db 319 LKRIQLDFSPFEGFP 334

RESULT 12  
US-09-489-847-273  
; Sequence 273, Application US/09489847  
; Patent No. 6476195  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al  
; TITLE OF INVENTION: 98 Human Secreted Proteins  
; FILE REFERENCE: P2031P1  
; CURRENT APPLICATION NUMBER: US/09/489,847  
; CURRENT FILING DATE: 2000-01-24  
; EARLIER APPLICATION NUMBER: PCT/US99/17130  
; EARLIER FILING DATE: 1999-07-29  
; EARLIER APPLICATION NUMBER: 60/094,657  
; EARLIER FILING DATE: 1998-07-30  
; EARLIER APPLICATION NUMBER: 60/095,486  
; EARLIER FILING DATE: 1998-08-05  
; EARLIER APPLICATION NUMBER: 60/096,319  
; EARLIER FILING DATE: 1998-08-12  
; EARLIER APPLICATION NUMBER: 60/095,454  
; EARLIER FILING DATE: 1998-08-06  
; EARLIER APPLICATION NUMBER: 60/095,455  
; EARLIER FILING DATE: 1998-08-06  
; NUMBER OF SEQ ID NOS: 376  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 273  
; LENGTH: 414  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-489-847-273

Query Match 62.5%; Score 40; DB 2; Length 414;  
Best Local Similarity 50.0%; Pred. No. 25;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 TIKKISPFEGFP 12  
|:|:| | | | | | | |  
Db 234 TLMGANYPEGFP 245

RESULT 13  
US-08-823-516-145  
; Sequence 145, Application US/08823516  
; Patent No. 5994069  
; GENERAL INFORMATION:  
; APPLICANT: Hall, Jeff G.  
; APPLICANT: Lyamichev, Victor I.  
; APPLICANT: Mast, Andrea L.  
; APPLICANT: Brow, Mary Ann D.  
; TITLE OF INVENTION: Detection Of Nucleic Acids By Multiple  
; TITLE OF INVENTION: Sequential Invasive Cleavages  
; NUMBER OF SEQUENCES: 163  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Medlen & Carroll, LLP  
; STREET: 220 Montgomery Street, Suite 2200  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: United States Of America  
; ZIP: 94104  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/823,516  
; FILING DATE: 24-MAR-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US97/01072  
; FILING DATE: 21-JAN-1997

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/759,038  
FILING DATE: 02-DEC-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/758,314  
FILING DATE: 02-DEC-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/756,386  
FILING DATE: 29-NOV-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/682,853  
FILING DATE: 12-JUL-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/599,491  
FILING DATE: 24-JAN-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Ingolia, Diane E.  
REGISTRATION NUMBER: 40,027  
REFERENCE/DOCKET NUMBER: FORS-02736  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 705-8410  
TELEFAX: (415) 397-8338  
INFORMATION FOR SEQ ID NO: 145:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 434 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
US-08-823-516-145

Query Match 62.5%; Score 40; DB 1; Length 434;  
Best Local Similarity 70.0%; Pred. No. 27;  
Matches 7; Conservative 1; Mismatches 2; Indels 2; Gaps 0;

QY 3 KKISFPEGFP 12  
||:|||||  
Db 274 KKNFPVGFPP 283

RESULT 14  
US-09-940-244-145  
Sequence 145, Application US/09940244  
Patent No. 6692917  
GENERAL INFORMATION:  
APPLICANT: Neri, Bruce P.  
APPLICANT: Hall, Jeff G.  
APPLICANT: Lyamichev, Victor  
APPLICANT: Smith, Lloyd M.  
TITLE OF INVENTION: Reactions on Dendrimers  
FILE REFERENCE: FORS-06478  
CURRENT APPLICATION NUMBER: US/09/940,244  
CURRENT FILING DATE: 2002-05-06  
NUMBER OF SEQ ID NOS: 422  
SOFTWARE: Patentin version 3.1  
SEQ ID NO 145  
LENGTH: 434  
TYPE: PRT  
ORGANISM: Cunninghamella elegans  
US-09-940-244-145

Query Match 62.5%; Score 40; DB 2; Length 434;  
Best Local Similarity 70.0%; Pred. No. 27;  
Matches 7; Conservative 1; Mismatches 2; Indels 2; Gaps 0;

QY 3 KKISFPEGFP 12  
||:|||||  
Db 274 KKNFPVGFPP 283

RESULT 15  
US-09-381-212-145  
Sequence 145, Application US/09381212

Patent No. 6872816  
GENERAL INFORMATION:  
APPLICANT: Hall, Jeff G.  
Lyamichev, Victor I.  
Mast, Andrea L.  
Brow, Mary Ann D.  
TITLE OF INVENTION: Detection Of Nucleic Acids By Multiple Sequential Invasive Cleavages  
NUMBER OF SEQUENCES: 190  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Medlen & Carroll, LLP  
STREET: 220 Montgomery Street, Suite 2200  
CITY: San Francisco  
STATE: California  
COUNTRY: United States Of America  
ZIP: 94104  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/381,212  
FILING DATE: 08-Feb-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US97/01072  
FILING DATE: 21-JAN-1997  
APPLICATION NUMBER: US 08/759,038  
FILING DATE: 02-DEC-1996  
APPLICATION NUMBER: US 08/758,314  
FILING DATE: 02-DEC-1996  
APPLICATION NUMBER: US 08/756,386  
FILING DATE: 29-NOV-1996  
APPLICATION NUMBER: US 08/682,853  
FILING DATE: 12-JUL-1996  
APPLICATION NUMBER: US 08/599,491  
FILING DATE: 24-JAN-1996  
APPLICATION NUMBER: US 08/823,516  
FILING DATE: 24-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: MacKnight, Kamrin T.  
REGISTRATION NUMBER: 38,230  
REFERENCE/DOCKET NUMBER: FORS-03295  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 705-8410  
TELEFAX: (415) 397-8338  
INFORMATION FOR SEQ ID NO: 145:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 434 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 145:  
US-09-381-212-145

Query Match 62.5%; Score 40; DB 2; Length 434;  
Best Local Similarity 70.0%; Pred. No. 27;  
Matches 7; Conservative 1; Mismatches 2; Indels 2; Gaps 0;

QY 3 KKISFPEGFP 12  
||:|||||  
Db 274 KKNFPVGFPP 283

Search completed: January 28, 2006, 06:24:30  
Job time : 18.6667 secs

**THIS PAGE BLANK (USPTO)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:23:49 ; Search time 12.3333 Seconds  
(without alignments)  
10.536 Million cell updates/sec

Title: US-09-897-042-19  
Perfect score: 64  
Sequence: 1 GPGTIKKISFPE 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 75621 seqs, 10829074 residues

Total number of hits satisfying chosen parameters: 75621

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.New.\*  
1: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES							
Result No.	Score	Query Match	Length DB ID	Description			
1	64	100.0	172 7	US-11-102-883-18	Sequence 18, Appl		
2	64	100.0	289 7	US-11-102-883-26	Sequence 26, Appl		
3	64	100.0	300 7	US-11-102-883-6	Sequence 6, Appl		
4	42	65.6	283 7	US-11-102-883-32	Sequence 32, Appl		
5	42	65.6	294 7	US-11-102-883-30	Sequence 30, Appl		
6	36	56.2	378 7	US-11-129-143-49	Sequence 49, Appl		
7	36	56.2	608 7	US-11-226-701-8	Sequence 8, Appl		
8	35	54.7	179 6	US-10-714-887-88	Sequence 88, Appl		
9	35	54.7	285 6	US-10-821-234-983	Sequence 983, App		
10	34	53.1	225 6	US-10-209-208-1	Sequence 1, Appl		
11	34	53.1	225 6	US-10-209-208-4	Sequence 4, Appl		
12	34	53.1	225 6	US-10-209-208-20	Sequence 20, Appl		
13	34	53.1	225 6	US-10-209-208-24	Sequence 24, Appl		
14	34	53.1	225 7	US-11-218-880-1	Sequence 1, Appl		
15	34	53.1	225 7	US-11-218-880-4	Sequence 4, Appl		
16	34	53.1	225 7	US-11-218-880-20	Sequence 20, Appl		
17	34	53.1	225 7	US-11-218-880-24	Sequence 24, Appl		
18	34	53.1	225 7	US-11-100-988-2	Sequence 2, Appl		
19	34	53.1	225 7	US-11-100-988-3	Sequence 3, Appl		
20	34	53.1	226 6	US-10-209-208-6	Sequence 6, Appl		
21	34	53.1	226 6	US-11-218-880-6	Sequence 6, Appl		
22	34	53.1	548 6	US-10-055-877-320	Sequence 320, App		
23	34	53.1	674 6	US-10-055-877-319	Sequence 319, App		
24	34	53.1	675 6	US-10-055-877-117	Sequence 117, App		
25	34	53.1	675 6	US-10-055-877-317	Sequence 317, App		

26	34	53.1	675	6	US-10-055-877-318	Sequence 318, App
27	34	53.1	768	7	US-11-147-109-10	Sequence 10, Appl
28	34	53.1	1436	7	US-11-052-554A-140	Sequence 140, App
29	33	51.6	186	6	US-10-793-626-3004	Sequence 3004, App
30	33	51.6	327	7	US-11-024-959-455	Sequence 455, App
31	33	51.6	664	6	US-10-624-932-10	Sequence 10, Appl
32	33	51.6	738	7	US-11-147-047-48	Sequence 48, Appl
33	33	51.6	795	7	US-11-052-554A-87	Sequence 87, Appl
34	33	51.6	869	6	US-10-453-372-50	Sequence 50, Appl
35	33	51.6	1024	7	US-11-145-631-2	Sequence 2, Appl
36	33	51.6	1070	7	US-11-147-047-49	Sequence 49, Appl
37	33	51.6	1204	7	US-11-145-631-5	Sequence 5, Appl
38	33	51.6	2612	6	US-10-453-372-38	Sequence 38, Appl
39	33	51.6	2669	6	US-10-453-372-36	Sequence 36, Appl
40	33	51.6	3104	6	US-10-453-372-34	Sequence 34, Appl
41	33	51.6	3104	6	US-10-453-372-62	Sequence 62, Appl
42	33	51.6	3104	6	US-10-453-372-64	Sequence 64, Appl
43	33	51.6	3130	6	US-10-453-372-42	Sequence 42, Appl
44	33	51.6	3483	6	US-10-453-372-40	Sequence 40, Appl
45	33	51.6	3546	6	US-10-453-372-32	Sequence 32, Appl

ALIGNMENTS

RESULT 1

US-11-102-883-18  
; Sequence 18, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lampung, Norbert  
; APPLICANT: Cramer, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods an  
; TITLE OF INVENTION: Uses Thereof  
; FILE REFERENCE: 03100234pa  
; CURRENT APPLICATION NUMBER: US/11/102,883  
; CURRENT FILING DATE: 2005-04-11  
; PRIOR APPLICATION NUMBER: EP02022774.0  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190  
; PRIOR FILING DATE: 2003-10-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 18  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
US-11-102-883-18

Query Match 100.0%; Score 64; DB 7; Length 172;  
Best Local Similarity 100.0%; Pred. No. 5.5e-05;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12

Db 62 GPGTIKKISFPE 73

RESULT 2

US-11-102-883-26  
; Sequence 26, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lampung, Norbert  
; APPLICANT: Cramer, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods an  
; TITLE OF INVENTION: Uses Thereof

```
; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26
; LENGTH: 289
; TYPE: PRT
; ORGANISM: tat-ii-bet v 1
US-11-102-883-26

Query Match      100.0%; Score 64; DB 7; Length 289;
Best Local Similarity 100.0%; Pred. No. 9.7e-05;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
      |||||
Db      179 GPGTIKKISFPE 190

RESULT 3
US-11-102-883-6
; Sequence 6, Application US/11102883
; Publication No. US20050281816A1
; GENERAL INFORMATION:
; APPLICANT: Lamping, Norbert
; APPLICANT: Cramer, Reto
; APPLICANT: Fluckiger, Sabina
; APPLICANT: Daigle, Isabelle
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus + Homo sapiens + Betula verrucosa
US-11-102-883-6

Query Match      100.0%; Score 64; DB 7; Length 300;
Best Local Similarity 100.0%; Pred. No. 0.0001;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
      |||||
Db      190 GPGTIKKISFPE 201

RESULT 4
US-11-102-883-32
; Sequence 32, Application US/11102883
; Publication No. US20050281816A1
; GENERAL INFORMATION:
; APPLICANT: Lamping, Norbert
; APPLICANT: Cramer, Reto
; APPLICANT: Fluckiger, Sabina
; APPLICANT: Daigle, Isabelle
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 03100234pa
```

```
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32
; LENGTH: 283
; TYPE: PRT
; ORGANISM: tat-ii-api g 1
US-11-102-883-32

Query Match      65.6%; Score 42; DB 7; Length 283;
Best Local Similarity 58.3%; Pred. No. 1.1;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
      |||||
Db      178 GPGTIKKITLPD 189

RESULT 5
US-11-102-883-30
; Sequence 30, Application US/11102883
; Publication No. US20050281816A1
; GENERAL INFORMATION:
; APPLICANT: Lamping, Norbert
; APPLICANT: Cramer, Reto
; APPLICANT: Fluckiger, Sabina
; APPLICANT: Daigle, Isabelle
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 03100234pa
; CURRENT APPLICATION NUMBER: US/11/102,883
; CURRENT FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: EP02022774.0
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190
; PRIOR FILING DATE: 2003-10-09
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 30
; LENGTH: 294
; TYPE: PRT
; ORGANISM: his-tat-ii-api g 1
US-11-102-883-30

Query Match      65.6%; Score 42; DB 7; Length 294;
Best Local Similarity 58.3%; Pred. No. 1.1;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
      |||||
Db      189 GPGTIKKITLPD 200

RESULT 6
US-11-129-143-49
; Sequence 49, Application US/11129143
; Publication No. US20050266518A1
; GENERAL INFORMATION:
; APPLICANT: BERRY, Alan
; APPLICANT: BRETZEL, Werner
; APPLICANT: HUMBELIN, Markus
; APPLICANT: LOPEZ-ULIBARRI, Rual
; APPLICANT: MAYER, Anne F.
; APPLICANT: YELISEV, Alexei A.
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION
; FILE REFERENCE: C38435/121966
; CURRENT APPLICATION NUMBER: US/11/129,143
```

; CURRENT FILING DATE: 2005-05-13  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 49  
; LENGTH: 378  
; TYPE: PRT  
; ORGANISM: Paracoccus sp. R114  
US-11-129-143-49

Query Match 56.2%; Score 36; DB 7; Length 378;  
Best Local Similarity 50.0%; Pred. No. 19;  
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 GGTIKKISPE 12  
|||:|  
Db 209 GPGSSFDLPE 220

RESULT 7  
US-11-226-701-8  
; Sequence 8, Application US/11226701  
; Publication No. US2006009632A1  
; GENERAL INFORMATION:  
; APPLICANT: Millennium Pharmaceuticals, Inc.  
; APPLICANT: Kapeller-Libermann, Rosana  
; APPLICANT: Robison, Keith E.  
; APPLICANT: White, David  
; APPLICANT: Williamson, Mark W.  
; APPLICANT: Cook, William James  
; APPLICANT: Meyers, Rachel E.  
; APPLICANT: MacBeth, Kyle J.  
; APPLICANT: Carroll, Joseph M.  
; APPLICANT: Chun, Miyoung  
; TITLE OF INVENTION: NOVEL 27875, 22025, 27420, 17906, 16319.  
; FILE REFERENCE: 55092 AND 10218 MOLECULES AND USES THEREFOR  
; CURRENT APPLICATION NUMBER: US/11/226,701  
; CURRENT FILING DATE: 2005-09-14  
; PRIOR APPLICATION NUMBER: US/10/386,414  
; PRIOR FILING DATE: 2003-03-11  
; PRIOR APPLICATION NUMBER: 09/426,282  
; PRIOR FILING DATE: 1999-10-25  
; PRIOR APPLICATION NUMBER: 09/668,266  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: 09/330,970  
; PRIOR FILING DATE: 1999-06-11  
; PRIOR APPLICATION NUMBER: 09/724,599  
; PRIOR FILING DATE: 2000-11-28  
; PRIOR APPLICATION NUMBER: 09/860,193  
; PRIOR FILING DATE: 2001-05-16  
; PRIOR APPLICATION NUMBER: 09/571,689  
; PRIOR FILING DATE: 2000-05-16  
; PRIOR APPLICATION NUMBER: 10/283,023  
; PRIOR FILING DATE: 2002-10-29  
; PRIOR APPLICATION NUMBER: 60/335,044  
; PRIOR FILING DATE: 2001-10-31  
; PRIOR APPLICATION NUMBER: 10/010,943  
; PRIOR FILING DATE: 2001-12-06  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 608  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(608)  
; OTHER INFORMATION: Xaa = Any Amino Acid  
US-11-226-701-8

Query Match 56.2%; Score 36; DB 7; Length 608;  
Best Local Similarity 45.5%; Pred. No. 32;

Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
QY 2 PGTIKKISPE 12  
|||:|  
Db 239 PCKVEEVSLE 249

RESULT 8  
US-10-714-887-88  
; Sequence 88, Application US/10714887  
; Publication No. US20060015972A1  
; GENERAL INFORMATION:  
; APPLICANT: Mendel Biotechnology, Inc.  
; APPLICANT: HEARD, Jacqueline  
; APPLICANT: RIECHMANN, Jose Luis  
; APPLICANT: CREELMAN, Robert  
; APPLICANT: RATCLIFFE, Oliver  
; APPLICANT: CANALES, Roger  
; APPLICANT: REPETTI, Peter  
; APPLICANT: KUMIMOTO, Roderick W  
; APPLICANT: GUTTERSON, Neal  
; APPLICANT: REUBER, T. Lynne  
; APPLICANT: PINEDA, Omaira  
; APPLICANT: SHERMAN, Bradley K  
; TITLE OF INVENTION: PLANT TRANSCRIPTIONAL REGULATORS OF DROUGHT STRESS  
; FILE REFERENCE: MBI0058-CIP  
; CURRENT APPLICATION NUMBER: US/10/714,887  
; CURRENT FILING DATE: 2003-11-13  
; PRIOR APPLICATION NUMBER: 10/412,699  
; PRIOR FILING DATE: 2003-04-10  
; PRIOR APPLICATION NUMBER: 09/506,720  
; PRIOR FILING DATE: 2000-02-17  
; PRIOR APPLICATION NUMBER: 60/135,134  
; PRIOR FILING DATE: 1999-05-20  
; PRIOR APPLICATION NUMBER: 09/394,519  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: 09/533,392  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 09/533,029  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 09/532,591  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 09/533,030  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/125,814  
; PRIOR FILING DATE: 1999-03-23  
; PRIOR APPLICATION NUMBER: 09/713,994  
; PRIOR FILING DATE: 2000-11-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 430  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 88  
; LENGTH: 179  
; TYPE: PRT  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: G3643 polypeptide Orthologous to G47  
US-10-714-887-88

Query Match 54.7%; Score 35; DB 6; Length 179;  
Best Local Similarity 45.5%; Pred. No. 13;  
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2 PGTIKKISPE 12  
|||:|  
Db 66 PSSLDKLNFE 76

RESULT 9  
US-10-821-234-983  
; Sequence 983, Application US/10821234  
; Publication No. US2005025114A1  
; GENERAL INFORMATION:

```
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Presclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 983
; LENGTH: 285
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-983

Query Match          54.7%; Score 35; DB 6; Length 285;
Best Local Similarity 54.5%; Pred. No. 22;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 GPGTIKKISFP 11
Db      31 GPSTLRPPSP 41

RESULT 10
US-10-209-208-1
; Sequence 1, Application US/10209208
; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Drososoma sp.
; NAME/KEY: misc.feature
; LOCATION: (1)...(225)
; OTHER INFORMATION: wild-type DsRed
US-10-209-208-1

Query Match          53.1%; Score 34; DB 6; Length 225;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      6 KKISFPE 12
Db      83 KKLSFPE 89

RESULT 11
US-10-209-208-4
; Sequence 4, Application US/10209208
; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
```

```
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DeRed polypeptide variant "T1"
US-10-209-208-4

Query Match          53.1%; Score 34; DB 6; Length 225;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      6 KKISFPE 12
Db      83 KKLSFPE 89

RESULT 12
US-10-209-208-20
; Sequence 20, Application US/10209208
; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DsRed with I125R
US-10-209-208-20

Query Match          53.1%; Score 34; DB 6; Length 225;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      6 KKISFPE 12
Db      83 KKLSFPE 89

RESULT 13
US-10-209-208-24
; Sequence 24, Application US/10209208
```

```

; Publication No. US20050244921A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; APPLICANT: Geoffrey Baird
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS
; TITLE OF INVENTION: FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP2
; CURRENT APPLICATION NUMBER: US/10/209,208
; CURRENT FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DsRed polypeptide variant "T1" with 1125R mutation
US-10-209-208-24

Query Match          53.1%; Score 34; DB 6; Length 225;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      6 KKISFPE 12
Db      83 KKLSFPE 89
      ||:||||
      ||:||||

RESULT 14
US-11-218-880-1
; Sequence 1, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Discosoma sp.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(225)
; OTHER INFORMATION: wild-type DsRed
US-11-218-880-1

Query Match          53.1%; Score 34; DB 7; Length 225;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      6 KKISFPE 12
Db      83 KKLSFPE 89
      ||:||||
      ||:||||
```

```

RESULT 15
US-11-218-880-4
; Sequence 4, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; APPLICANT: Campbell, Robert
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DsRed polypeptide variant "T1"
US-11-218-880-4

Query Match          53.1%; Score 34; DB 7; Length 225;
Best Local Similarity 85.7%; Pred. No. 26;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      6 KKISFPE 12
Db      83 KKLSFPE 89
      ||:||||
      ||:||||

Search completed: January 28, 2006, 06:44:47
Job time : 13.3333 secs
```

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:23:08 ; Search time 79.6667 Seconds  
(without alignments)  
62.937 Million cell updates/sec

Title: US-09-897-042-19  
Perfect score: 64  
Sequence: 1 GPGTIKKISFPE 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB.pcp:\*  
2: /cgn2\_6/prodata/1/pubpaa/US08\_PUBCOMB.pcp:\*  
3: /cgn2\_6/prodata/1/pubpaa/US09\_PUBCOMB.pcp:\*  
4: /cgn2\_6/prodata/1/pubpaa/US10A\_PUBCOMB.pcp:\*  
5: /cgn2\_6/prodata/1/pubpaa/US10B\_PUBCOMB.pcp:\*  
6: /cgn2\_6/prodata/1/pubpaa/US11\_PUBCOMB.pcp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	64	100.0	12	3	US-09-897-042-19 Sequence 19, Appl
2	64	100.0	31	4	US-10-026-911-3 Sequence 3, Appli
3	64	100.0	125	5	US-10-799-514-5 Sequence 5, Appli
4	64	100.0	159	3	US-09-981-009B-1 Sequence 1, Appli
5	64	100.0	159	3	US-09-847-208-34 Sequence 34, Appl
6	64	100.0	159	3	US-09-847-208-37 Sequence 37, Appl
7	64	100.0	159	3	US-09-847-208-38 Sequence 38, Appl
8	64	100.0	159	3	US-09-847-208-40 Sequence 40, Appl
9	64	100.0	159	3	US-09-957-806A-6 Sequence 6, Appli
10	64	100.0	159	4	US-10-001-245-2 Sequence 2, Appli
11	64	100.0	159	4	US-10-001-245-3 Sequence 3, Appli
12	64	100.0	159	4	US-10-001-245-4 Sequence 4, Appli
13	64	100.0	159	4	US-10-001-245-5 Sequence 5, Appli
14	64	100.0	159	4	US-10-001-245-9 Sequence 9, Appli
15	64	100.0	159	4	US-10-001-245-92 Sequence 92, Appl
16	64	100.0	159	4	US-10-440-516-47 Sequence 47, Appl
17	64	100.0	159	4	US-10-719-553-37 Sequence 37, Appl
18	64	100.0	159	4	US-10-698-855-5 Sequence 5, Appli
19	64	100.0	160	4	US-10-001-245-1 Sequence 1, Appli
20	64	100.0	160	4	US-10-001-245-6 Sequence 6, Appli
21	64	100.0	160	4	US-10-001-245-7 Sequence 7, Appli
22	64	100.0	160	4	US-10-001-245-8 Sequence 8, Appli
23	64	100.0	160	4	US-10-001-245-10 Sequence 10, Appl
24	64	100.0	160	4	US-10-001-245-11 Sequence 11, Appl
25	64	100.0	160	4	US-10-001-245-12 Sequence 12, Appl
26	64	100.0	160	4	US-10-440-516-1 Sequence 1, Appli
27	64	100.0	160	4	US-10-440-516-2 Sequence 2, Appli

28	64	100.0	160	4	US-10-440-516-3	Sequence 3, Appli
29	64	100.0	160	4	US-10-440-516-4	Sequence 4, Appli
30	64	100.0	160	4	US-10-440-516-5	Sequence 5, Appli
31	64	100.0	160	4	US-10-440-516-6	Sequence 6, Appli
32	64	100.0	160	4	US-10-440-516-7	Sequence 7, Appli
33	64	100.0	160	4	US-10-440-516-8	Sequence 8, Appli
34	64	100.0	160	4	US-10-440-516-11	Sequence 11, Appl
35	64	100.0	160	4	US-10-440-516-12	Sequence 12, Appl
36	64	100.0	160	4	US-10-440-516-15	Sequence 15, Appl
37	64	100.0	160	4	US-10-440-516-16	Sequence 16, Appl
38	64	100.0	160	4	US-10-440-516-19	Sequence 19, Appl
39	64	100.0	160	4	US-10-440-516-20	Sequence 20, Appl
40	64	100.0	160	4	US-10-440-516-23	Sequence 23, Appl
41	64	100.0	160	4	US-10-440-516-24	Sequence 24, Appl
42	64	100.0	160	4	US-10-440-516-25	Sequence 25, Appl
43	64	100.0	160	4	US-10-440-516-26	Sequence 26, Appl
44	64	100.0	160	4	US-10-440-516-27	Sequence 27, Appl
45	64	100.0	160	4	US-10-440-516-28	Sequence 28, Appl

ALIGNMENTS

RESULT 1  
US-09-897-042-19  
; Sequence 19, Application US/09897042  
; Patent No. US20020018779A1  
; GENERAL INFORMATION:  
; APPLICANT: VALENTA, Rudolf  
; APPLICANT: VRTALA, Susanne  
; APPLICANT: VANGELISTA, Luca  
; APPLICANT: EICHLER, Hans-Georg  
; APPLICANT: SPERR, Wolfgang R.  
; APPLICANT: VALENT, Peter  
; APPLICANT: EBNER, Christof  
; APPLICANT: KRAFT, Dietrich  
; APPLICANT: GRONLUND, Hans  
; TITLE OF INVENTION: NON-ANAPHYLACTIC FORMS OF ALLERGENS AND THEIR USE  
; FILE REFERENCE: 1614-251P  
; CURRENT APPLICATION NUMBER: US/09/897,042  
; CURRENT FILING DATE: 2001-07-07  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 19  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Betula sp.  
US-09-897-042-19

Query Match 100.0%; Score 64; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.00022;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GPGTIKKISFPE 12  
|||||  
Db 1 GPGTIKKISFPE 12

RESULT 2  
US-10-026-911-3  
; Sequence 3, Application US/10026911  
; Publication No. US20030078201A1  
; GENERAL INFORMATION:  
; APPLICANT: Focke, Margarete  
; APPLICANT: Mahler, Vera  
; APPLICANT: Sperr, Wolfgang R.  
; APPLICANT: Valent, Peter  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Valenta, Rudolf  
; TITLE OF INVENTION: Allergy Vaccines and Their Preparation  
; FILE REFERENCE: 0273-0005  
; CURRENT APPLICATION NUMBER: US/10/026,911  
; CURRENT FILING DATE: 2002-07-24

```
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: solvent-exposed peptide
US-10-026-911-3

Query Match          100.0%; Score 64; DB 4; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00059;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12
   |||||
Db 2 GPGTIKKISFPE 13

RESULT 3
US-10-799-514-5
; Sequence 5, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; CURRENT FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; PRIOR FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-5

Query Match          100.0%; Score 64; DB 5; Length 125;
Best Local Similarity 100.0%; Pred. No. 0.0026;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12
   |||||
Db 50 GPGTIKKISFPE 61

RESULT 4
US-09-981-009B-1
; Sequence 1, Application US/09981009B
; Publication No. US20030041354A1
; GENERAL INFORMATION:
; APPLICANT: Kjaerulff, Soren
; APPLICANT: Roggen, Erwin
; TITLE OF INVENTION: Transgenic Plants
; FILE REFERENCE: 10082.200-US
; CURRENT APPLICATION NUMBER: US/09/981,009B
; CURRENT FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-981-009B-1

Query Match          100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12
   |||||
Db 49 GPGTIKKISFPE 60

US-09-847-208-34
; Sequence 34, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-34

Query Match          100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12
   |||||
Db 49 GPGTIKKISFPE 60

RESULT 6
US-09-847-208-37
; Sequence 37, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-37

Query Match          100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12
   |||||
Db 49 GPGTIKKISFPE 60

RESULT 7
US-09-847-208-38
; Sequence 38, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
```



```
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-38
Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
        |||||
Db       49 GPGTIKKISFPE 60

RESULT 8
US-09-847-208-40
; Sequence 40, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-40
Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
        |||||
Db       49 GPGTIKKISFPE 60

RESULT 9
US-09-957-806A-6
; Sequence 6, Application US/09957806A
; Publication No. US20050181446A1
; GENERAL INFORMATION:
; APPLICANT: Roggen, Erwin
; APPLICANT: Ernst, Steffen
; APPLICANT: Svendsen, Allan
; APPLICANT: Friis, Ebben
; APPLICANT: Osten, Claus
; TITLE OF INVENTION: PROTEIN VARIANTS HAVING MODIFIED IMMUNOGENICITY
; FILE REFERENCE: 10021.204-US
; CURRENT APPLICATION NUMBER: US/09/957,806A
; CURRENT FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-957-806A-6
Query Match      100.0%; Score 64; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GPGTIKKISFPE 12
        |||||
Db       49 GPGTIKKISFPE 60

RESULT 10
US-10-001-245-2
; Sequence 2, Application US/10001245
; Publication No. US20030175312A1
; GENERAL INFORMATION:
; APPLICANT: HOLM, Jens
; APPLICANT: IPSEN, Henrik
; APPLICANT: LARSEN, Jorgen N.
; APPLICANT: SPANGFORT, Michael D.
; TITLE OF INVENTION: No. US20030175312A1el mutant allergens
; FILE REFERENCE: 4305/IH942-US2
; CURRENT APPLICATION NUMBER: US/10/001,245
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/298,170
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/249,361
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (5)..(5)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (42)..(42)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (45)..(45)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (78)..(78)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (103)..(103)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (123)..(123)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (134)..(134)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (156)..(156)
; OTHER INFORMATION:
; OTHER INFORMATION:
US-10-001-245-2
Query Match      100.0%; Score 64; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 159

```

## RESULT 11

```

; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (5)..(5)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (45)..(45)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (65)..(65)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (97)..(97)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (134)..(134)
; OTHER INFORMATION:
; US-10-001-245-4

```

```
Query Match      100.0%; Score 64; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12: Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 GPGTIKKISFPE 12  
|||  
Dp 49 GPGTIKKISFPE 60

## RESULT 13

```

US-10-001-245-5
; Sequence 5, Application US/10001245
; Publication No. US20030175312A1
; GENERAL INFORMATION:
; APPLICANT: HOLM, Jens
; APPLICANT: IPSEN, Henrik
; APPLICANT: LARSEN, Jorgen N.
; APPLICANT: SPANGFORD, Michael D.
; TITLE OF INVENTION: NO. US20030175312A1el mutant allergens
; FILE REFERENCE: 4305/1H942-US2
; CURRENT APPLICATION NUMBER: US/10/001,245
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/298,170
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/249,361
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5

```

## RESIST. 12

```

? LENGTH: 159
? TYPE: PRT
? ORGANISM: Betula verrucosa
?
? FEATURE:
? NAME/KEY: mutation
? LOCATION: (16)..(16)
? OTHER INFORMATION:
?
? FEATURE:
? NAME/KEY: mutation
? LOCATION: (28)..(28)
? OTHER INFORMATION:
?
? FEATURE:
? NAME/KEY: mutation
? LOCATION: (32)..(32)
? OTHER INFORMATION:
?
? FEATURE:

```

```
; NAME/KEY: mutation
; LOCATION: (103)..(103)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (108)..(108)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (152)..(152)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (153)..(153)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (155)..(155)
; OTHER INFORMATION:
; US-10-001-245-5
```

```
Query Match 100.0%; Score 64; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GPGTIKKISFPE 12
||| ||||| |||
Db 49 GPGTIKKISFPE 60
```

## RESULT 14

```
US-10-001-245-9
; Sequence 9, Application US/10001245
; Publication No. US20030175312A1
; GENERAL INFORMATION:
; APPLICANT: HOLM, Jens
; APPLICANT: IPSEN, Henrik
; APPLICANT: LARSEN, Jorgen N.
; APPLICANT: SPANGFORT, Michael D.
; TITLE OF INVENTION: No. US20030175312A1el mutant allergens
; FILE REFERENCE: 4305/1H942-US2
; CURRENT APPLICATION NUMBER: US/10/001.245
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/298,170
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/249,361
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
```

```
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (28)..(28)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (32)..(32)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (65)..(65)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (96)..(96)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (97)..(97)
; OTHER INFORMATION:
```

```
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (108)..(108)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (109)..(109)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (125)..(125)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (127)..(127)
; OTHER INFORMATION:
; FEATURE:
; NAME/KEY: mutation
; LOCATION: (145)..(145)
; OTHER INFORMATION:
; US-10-001-245-9
```

```
Query Match 100.0%; Score 64; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GPGTIKKISFPE 12
||| ||||| |||
Db 49 GPGTIKKISFPE 60
```

## RESULT 15

```
US-10-001-245-92
; Sequence 92, Application US/10001245
; Publication No. US20030175312A1
; GENERAL INFORMATION:
; APPLICANT: HOLM, Jens
; APPLICANT: IPSEN, Henrik
; APPLICANT: LARSEN, Jorgen N.
; APPLICANT: SPANGFORT, Michael D.
; TITLE OF INVENTION: No. US20030175312A1el mutant allergens
; FILE REFERENCE: 4305/1H942-US2
; CURRENT APPLICATION NUMBER: US/10/001.245
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/298,170
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/249,361
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 92
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa
; US-10-001-245-92
```

```
Query Match 100.0%; Score 64; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0034;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GPGTIKKISFPE 12
||| ||||| |||
Db 49 GPGTIKKISFPE 60
```

```
Search completed: January 28, 2006, 06:43:58
Job time : 80.6667 secs
```

**THIS PAGE BLANK (USPTO)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:20:07 ; Search time 18.6667 Seconds  
(without alignments)  
53.149 Million cell updates/sec

Title: US-09-897-042-19  
Perfect score: 64  
Sequence: 1 GPGTIKISFPE 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/iaa/5 COMB.pep.\*  
2: /cgn2\_6/prodata/1/iaa/6 COMB.pep.\*  
3: /cgn2\_6/prodata/1/iaa/H COMB.pep.\*  
4: /cgn2\_6/prodata/1/iaa/ECTUS COMB.pep.\*  
5: /cgn2\_6/prodata/1/iaa/RE COMB.pep.\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	64	100.0	160	1	US-07-847-010-23
2	61	95.3	160	1	US-07-847-010-3
3	55	85.9	158	2	US-08-964-722-2
4	50	78.1	158	6	5312912-2
5	47	73.4	160	1	US-07-847-010-11
6	47	73.4	160	1	US-07-847-010-14
7	47	73.4	160	1	US-07-847-010-17
8	47	73.4	160	1	US-07-847-010-20
9	41	64.1	1198	2	US-09-252-991A-21016
10	40	62.5	1300	2	US-09-248-796A-27885
11	39	60.9	133	2	US-09-012-504A-18
12	39	60.9	581	2	US-09-107-532A-5385
13	39	60.9	592	2	US-09-830-230A-346
14	39	60.9	612	2	US-09-830-230A-345
15	38	59.4	405	2	US-09-134-000C-4680
16	38	59.4	471	1	US-08-399-889-24
17	38	59.4	471	2	US-09-167-364-24
18	38	59.4	471	2	US-09-439-897-2
19	38	59.4	3730	2	US-09-949-016-9908
20	37	57.8	60	2	US-09-540-236-2344
21	37	57.8	101	2	US-09-902-540-15306
22	37	57.8	300	2	US-09-982-616-9
23	37	57.8	680	2	US-09-489-039A-8422
24	37	57.8	763	2	US-09-583-110-3773
25	37	57.8	776	2	US-09-107-433-3635
26	37	57.8	793	1	US-08-468-558-5
27	37	57.8	793	2	US-08-676-444-5

28	37	57.8	1670	2	US-09-949-016-5883	Sequence 5883, Ap
29	36	56.2	74	2	US-09-248-796A-22915	Sequence 22915, A
30	36	56.2	163	2	US-09-861-451A-44	Sequence 44, Appl
31	36	56.2	168	2	US-09-605-703B-2820	Sequence 2820, Ap
32	36	56.2	447	2	US-09-109-204-3	Sequence 3, Appli
33	36	56.2	447	2	US-09-490-032-3	Sequence 3, Appli
34	36	56.2	453	2	US-09-252-991A-19829	Sequence 19829, A
35	36	56.2	608	2	US-09-464-377-2	Sequence 2, Appli
36	36	56.2	608	2	US-09-464-377-3	Sequence 3, Appli
37	35	54.7	84	2	US-09-248-796A-22781	Sequence 22781, A
38	35	54.7	131	2	US-09-641-638-654	Sequence 654, App
39	35	54.7	131	2	US-10-170-097-654	Sequence 654, App
40	35	54.7	133	2	US-09-012-515A-18	Sequence 18, Appl
41	35	54.7	133	2	US-08-360-144A-18	Sequence 18, Appl
42	35	54.7	133	2	US-09-012-399A-18	Sequence 18, Appl
43	35	54.7	133	4	PCT-US95-06722-18	Sequence 18, Appl
44	35	54.7	154	1	US-08-363-010-1	Sequence 1, Appli
45	35	54.7	154	1	US-08-911-434A-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1  
US-07-847-010-23  
; Sequence 23, Application US/07847010  
; Patent No. 5693495  
; GENERAL INFORMATION:  
; APPLICANT: Breiteneder, Heimo  
; APPLICANT: Reikerstorfer, Arnold  
; APPLICANT: Valentia, Rudolf  
; APPLICANT: Hoffmann - Sommergruber, Karin  
; APPLICANT: Breitenbach, Michael  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Rumpold, Helmut  
; APPLICANT: Scheiner, Otto  
; APPLICANT: Ebner, Christof  
; APPLICANT: Ferreira, Fatima  
; TITLE OF INVENTION: Allergens of Alder Pollen and  
; TITLE OF INVENTION: Applications Thereof  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/847,010  
; FILING DATE: 01-JUN-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jones III, Harry C.  
; REGISTRATION NUMBER: 20,280  
; REFERENCE/DOCKET NUMBER: 6530-010  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 160 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHEetical: NO  
; ORIGINAL SOURCE:

```
; ORGANISM: birch (Betula sp.)
; IMMEDIATE SOURCE:
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN
US-07-847-010-23

Query Match      100.0%; Score 64; DB 1; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.00051;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GPGTIKKISFPE 12
        |||||||
Db      50 GPGTIKKISFPE 61

RESULT 2
US-07-847-010-3
; Sequence 3, Application US/07847010
; Patent No. 5693495
; GENERAL INFORMATION:
; APPLICANT: Breiteneder, Heimo
; APPLICANT: Reikerstorfer, Arnold
; APPLICANT: Valentia, Rudolf
; APPLICANT: Hoffmann - Sommergruber, Karin
; APPLICANT: Breitenbach, Michael
; APPLICANT: Kraft, Dietrich
; APPLICANT: Rumpold, Helmut
; APPLICANT: Scheiner, Otto
; APPLICANT: Ebner, Christof
; APPLICANT: Ferreira, Fatima
; TITLE OF INVENTION: Allergens of Alder Pollen and
; TITLE OF INVENTION: Applications Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/847,010
; FILING DATE: 01-JUN-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jones III, Harry C.
; REGISTRATION NUMBER: 20,280
; REFERENCE/DOCKET NUMBER: 6530-010
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 160 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Alder (Alnus sp.)
US-07-847-010-3

Query Match      95.3%; Score 61; DB 1; Length 160;
Best Local Similarity 91.7%; Pred. No. 0.0018;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GPGTIKKISFPE 12
        |||||||
Db      50 GPGTIKKISFPE 61

US-08-964-722-2
; Sequence 2, Application US/08964722A
; Patent No. 6184437
; GENERAL INFORMATION:
; APPLICANT: Sun, Samuel S.M.
; APPLICANT: Xiong, Liwen
; APPLICANT: Jing, Yuxiang
; APPLICANT: Liu, Bolin
; TITLE OF INVENTION: LYSINE RICH PROTEIN FROM WINGED BEAN
; FILE REFERENCE: 23461-20006.01
; CURRENT APPLICATION NUMBER: US/08/964,722A
; CURRENT FILING DATE: 1997-11-05
; EARLIER APPLICATION NUMBER: 60/002,918
; EARLIER FILING DATE: 1995-08-29
; EARLIER APPLICATION NUMBER: 60/004,266
; EARLIER FILING DATE: 1995-09-25
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: winged bean
US-08-964-722-2

Query Match      85.9%; Score 55; DB 2; Length 158;
Best Local Similarity 91.7%; Pred. No. 0.022;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GPGTIKKISFPE 12
        |||||||
Db      49 GPGTIKKISFVE 60

RESULT 4
5312912-2
; Patent No. 5312912
; APPLICANT: HADWIGER, LEE A.; CHIANG, CHIN C.; HOROVITZ, DANIEL A.
; TITLE OF INVENTION: PROCEDURES AND REGULATORY DNA SEQUENCES
; FOR GENETICALLY ENGINEERING DISEASE RESISTANCE AND OTHER
; INDUCIBLE TRAITS IN PLANTS
; NUMBER OF SEQUENCES: 9
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/393,301
; FILING DATE: 13-JUN-1989
; SEQ ID NO:2:
; LENGTH: 158
5312912-2

Query Match      78.1%; Score 50; DB 6; Length 158;
Best Local Similarity 75.0%; Pred. No. 0.18;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 GPGTIKKISFPE 12
        |||||||
Db      49 GPGTIKKLTFFE 60

RESULT 5
US-07-847-010-11
; Sequence 11, Application US/07847010
; Patent No. 5693495
; GENERAL INFORMATION:
; APPLICANT: Breiteneder, Heimo
; APPLICANT: Reikerstorfer, Arnold
; APPLICANT: Valentia, Rudolf
; APPLICANT: Hoffmann - Sommergruber, Karin
; APPLICANT: Breitenbach, Michael
; APPLICANT: Kraft, Dietrich
```

APPLICANT: Rumpold, Helmut  
APPLICANT: Scheiner, Otto  
APPLICANT: Ebner, Christof  
APPLICANT: Ferreira, Fatima  
TITLE OF INVENTION: Allergens of Alder Pollen and  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/847,010  
FILING DATE: 01-JUN-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jones III, Harry C  
REGISTRATION NUMBER: 20,280  
REFERENCE/DOCKET NUMBER: 6530-010  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 160 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: hazel (Corylus sp.)  
IMMEDIATE SOURCE:  
LIBRARY: POLLEN FROM ALLERGON AB, ENGELHOLM, SWEDEN  
US-07-847-010-11

Query Match 73.4%; Score 47; DB 1; Length 160;  
Best Local Similarity 75.0%; Pred. No. 0.66;  
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GPGTIKKISFPE 12  
|||||:|  
Db 50 GPGTIKNITFGE 61

RESULT 6  
US-07-847-010-14  
Sequence 14, Application US/07847010  
Patent No. 5693495  
GENERAL INFORMATION:  
APPLICANT: Breiteneder, Heimo  
APPLICANT: Reikerstorfer, Arnold  
APPLICANT: Valenta, Rudolf  
APPLICANT: Hoffmann - Sommergruber, Karin  
APPLICANT: Breitenbach, Michael  
APPLICANT: Rumpold, Helmut  
APPLICANT: Scheiner, Otto  
APPLICANT: Ebner, Christof  
APPLICANT: Ferreira, Fatima  
TITLE OF INVENTION: Allergens of Alder Pollen and  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds

STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/847,010  
FILING DATE: 01-JUN-1992  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Jones III, Harry C  
REGISTRATION NUMBER: 20,280  
REFERENCE/DOCKET NUMBER: 6530-010  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 160 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: hazel (Corylus sp.)  
IMMEDIATE SOURCE:  
LIBRARY: POLLEN FROM ALLERGON AB, ENGELHOLM, SWEDEN  
US-07-847-010-14

Query Match 73.4%; Score 47; DB 1; Length 160;  
Best Local Similarity 75.0%; Pred. No. 0.66;  
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 GPGTIKKISFPE 12  
|||||:|  
Db 50 GPGTIKNITFGE 61

RESULT 7  
US-07-847-010-17  
Sequence 17, Application US/07847010  
Patent No. 5693495  
GENERAL INFORMATION:  
APPLICANT: Breiteneder, Heimo  
APPLICANT: Reikerstorfer, Arnold  
APPLICANT: Valenta, Rudolf  
APPLICANT: Hoffmann - Sommergruber, Karin  
APPLICANT: Breitenbach, Michael  
APPLICANT: Rumpold, Helmut  
APPLICANT: Scheiner, Otto  
APPLICANT: Ebner, Christof  
APPLICANT: Ferreira, Fatima  
TITLE OF INVENTION: Allergens of Alder Pollen and  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA: US/07/847,010  
; APPLICATION NUMBER: US/07/847,010  
; FILING DATE: 01-JUN-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jones III, Harry C  
; REGISTRATION NUMBER: 20,280  
; REFERENCE/DOCKET NUMBER: 6530-010  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; NAME: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 160 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORGANISM: hazel (Corylus sp.)  
; IMMEDIATE SOURCE:  
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN  
US-07-847-010-17

Query Match 73.4%; Score 47; DB 1; Length 160;  
Best Local Similarity 75.0%; Pred. No. 0.66;  
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12  
||||| :||  
Db 50 GPGTIKNITFGE 61

RESULT 8  
US-07-847-010-20  
; Sequence 20, Application US/07847010  
; Patent No. 5693495  
; GENERAL INFORMATION:  
; APPLICANT: Breiteneder, Heimo  
; APPLICANT: Reikerstorfer, Arnold  
; APPLICANT: Valenta, Rudolf  
; APPLICANT: Hoffmann - Sommergruber, Karin  
; APPLICANT: Breitenbach, Michael  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Rumpold, Helmut  
; APPLICANT: Scheiner, Otto  
; APPLICANT: Ebner, Christof  
; APPLICANT: Ferreira, Fatima  
; TITLE OF INVENTION: Allergens of Alder Pollen and  
; TITLE OF INVENTION: Applications Thereof  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/847,010  
; FILING DATE: 01-JUN-1992  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jones III, Harry C  
; REGISTRATION NUMBER: 20,280  
; REFERENCE/DOCKET NUMBER: 6530-010

; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-9741/8864  
; NAME: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 20:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 160 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; ORGANISM: hazel (Corylus sp.)  
; IMMEDIATE SOURCE:  
; LIBRARY: POLLEN FROM ALLERCON AB, ENGELHOLM, SWEDEN  
US-07-847-010-20

Query Match 73.4%; Score 47; DB 1; Length 160;  
Best Local Similarity 75.0%; Pred. No. 0.66;  
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GPGTIKKISFPE 12  
||||| :||  
Db 50 GPGTIKNITFGE 61

RESULT 9  
US-09-252-991A-21016  
; Sequence 21016, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 21016  
; LENGTH: 1198  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-21016

Query Match 64.1%; Score 41; DB 2; Length 1198;  
Best Local Similarity 70.0%; Pred. No. 73;  
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GPGTIKKISF 10  
||||| :||  
Db 7 GPGTIRALSF 16

RESULT 10  
US-09-248-796A-27885  
; Sequence 27885, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstock et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208



```
; SEQ ID NO 27885
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Candida albicans
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (2)
; OTHER INFORMATION: Identity of amino acid sequences at the above locations are unknown
US-09-248-796A-27885

Query Match 62.5%; Score 40; DB 2; Length 190;
Best Local Similarity 58.3%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 GPGTIKKISFPE 12
DB 177 GPTVTEKINVP 188

RESULT 11
US-09-012-504A-18
; Sequence 18, Application US/09012504A
; Patent No. 6464974
; GENERAL INFORMATION:
; APPLICANT: Berlin, V.
; APPLICANT: Chiu, I.
; APPLICANT: Cottarel, G.
; APPLICANT: Damagnez, V.
; TITLE OF INVENTION: IMMUNOSUPPRESSANT TARGET PROTEINS
; FILE REFERENCE: APBI-P05-036
; CURRENT APPLICATION NUMBER: US/09/012,504A
; CURRENT FILING DATE: 1998-01-23
; PRIOR APPLICATION NUMBER: 08/360,144
; PRIOR FILING DATE: 1994-12-20
; PRIOR APPLICATION NUMBER: 08/250,795
; PRIOR FILING DATE: 1994-05-27
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Mammalian
US-09-012-504A-18

Query Match 60.9%; Score 39; DB 2; Length 133;
Best Local Similarity 58.3%; Pred. No. 16;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 GPGTIKKISFPE 12
DB 46 GPTLREISFQE 57

RESULT 12
US-09-107-532A-5385
; Sequence 5385, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
```

```
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-8277
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5385:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 581 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...581
; SEQUENCE DESCRIPTION: SEQ ID NO: 5385:
US-09-107-532A-5385

Query Match 60.9%; Score 39; DB 2; Length 581;
Best Local Similarity 58.3%; Pred. No. 78;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 GPGTIKKISFPE 12
DB 352 GPGPAKKIRMPD 363

RESULT 13
US-09-830-230A-346
; Sequence 346, Application US/09830230A
; Patent No. 6902893
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Lyme Disease Vaccines
; FILE REFERENCE: PB481US
; CURRENT APPLICATION NUMBER: US/09/830,230A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: PCT/US98/12718
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/057,483
; PRIOR FILING DATE: 1997-09-03
; PRIOR APPLICATION NUMBER: 60/053,344
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/053,377
; PRIOR FILING DATE: 1997-07-22
; PRIOR APPLICATION NUMBER: 60/050,359
; PRIOR FILING DATE: 1997-06-20
; NUMBER OF SEQ ID NOS: 756
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 346
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-830-230A-346

Query Match 60.9%; Score 39; DB 2; Length 592;
Best Local Similarity 88.9%; Pred. No. 79;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GTIKKISFP 11
```

Db 183 GFIKKISFP 191  
| | | | |

RESULT 14  
US-09-830-230A-345  
; Sequence 345, Application US/09830230A  
; Patent No. 6902893  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Lyme Disease Vaccines  
; FILE REFERENCE: PB481US  
; CURRENT APPLICATION NUMBER: US/09/830,230A  
; CURRENT FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: PCT/US98/12718  
; PRIOR FILING DATE: 1998-06-18  
; PRIOR APPLICATION NUMBER: 60/057,483  
; PRIOR FILING DATE: 1997-09-03  
; PRIOR APPLICATION NUMBER: 60/053,344  
; PRIOR FILING DATE: 1997-07-22  
; PRIOR APPLICATION NUMBER: 60/053,377  
; PRIOR FILING DATE: 1997-07-22  
; PRIOR APPLICATION NUMBER: 60/050,359  
; PRIOR FILING DATE: 1997-06-20  
; NUMBER OF SEQ ID NOS: 756  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 345  
; LENGTH: 612  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-830-230A-345

Query Match 60.9%; Score 39; DB 2; Length 612;  
Best Local Similarity 88.9%; Pred. No. 82;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GFIKKISFP 11  
| | | | |  
Db 203 GFIKKISFP 211

RESULT 15  
US-09-134-000C-4680  
; Sequence 4680, Application US/09134000C  
; Patent No. 6617156  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
; FILE REFERENCE: 032796-032  
; CURRENT APPLICATION NUMBER: US/09/134,000C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/055,778  
; PRIOR FILING DATE: 1997-08-15  
; NUMBER OF SEQ ID NOS: 6812  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 4680  
; LENGTH: 405  
; TYPE: PRT  
; ORGANISM: Enterococcus faecalis  
US-09-134-000C-4680

Query Match 59.4%; Score 38; DB 2; Length 405;  
Best Local Similarity 54.5%; Pred. No. 80;  
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2 PGTIKKISFPE 12  
| | | | |  
Db 158 PGTIKKISFPE 168

GenCore version 5.1.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:23:49 ; Search time 12.3333 Seconds  
(without alignments)  
10.536 Million cell updates/sec

Title: US-09-897-042-21  
Perfect score: 68  
Sequence: 1 KISFPEGFPFKY 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 75621 seqs, 10829074 residues

Total number of hits satisfying chosen parameters: 75621

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.New.\*  
1: /cgn2\_6/prodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
2: /cgn2\_6/prodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
3: /cgn2\_6/prodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
4: /cgn2\_6/prodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
5: /cgn2\_6/prodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
6: /cgn2\_6/prodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
7: /cgn2\_6/prodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
8: /cgn2\_6/prodata/2/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	68	100.0	172	7 US-11-102-883-18	Sequence 18, Appl
2	68	100.0	289	7 US-11-102-883-26	Sequence 26, Appl
3	68	100.0	300	7 US-11-102-883-6	Sequence 6, Appl
4	42	61.8	225	6 US-10-209-208-1	Sequence 1, Appl
5	42	61.8	225	6 US-10-209-208-4	Sequence 4, Appl
6	42	61.8	225	6 US-10-209-208-8	Sequence 8, Appl
7	42	61.8	225	6 US-10-209-208-20	Sequence 20, Appl
8	42	61.8	225	6 US-10-209-208-24	Sequence 24, Appl
9	42	61.8	225	6 US-10-209-208-79	Sequence 79, Appl
10	42	61.8	225	7 US-11-218-880-1	Sequence 1, Appl
11	42	61.8	225	7 US-11-218-880-4	Sequence 4, Appl
12	42	61.8	225	7 US-11-218-880-8	Sequence 8, Appl
13	42	61.8	225	7 US-11-218-880-20	Sequence 20, Appl
14	42	61.8	225	7 US-11-218-880-24	Sequence 24, Appl
15	42	61.8	225	7 US-11-100-988-2	Sequence 2, Appl
16	42	61.8	225	7 US-11-100-988-3	Sequence 3, Appl
17	42	61.8	225	7 US-11-100-988-5	Sequence 5, Appl
18	42	61.8	226	6 US-10-209-208-6	Sequence 6, Appl
19	42	61.8	226	7 US-11-218-880-6	Sequence 6, Appl
20	37	54.4	233	7 US-11-179-411-27	Sequence 27, Appl
21	37	54.4	233	7 US-11-179-411-33	Sequence 33, Appl
22	37	54.4	233	7 US-11-175-766-27	Sequence 27, Appl
23	37	54.4	233	7 US-11-175-766-33	Sequence 33, Appl
24	37	54.4	495	6 US-10-467-962B-93	Sequence 93, Appl
25	36	52.9	161	6 US-10-986-501-189	Sequence 189, Appl

26	36	52.9	238	7 US-11-052-554A-38	Sequence 38, Appl
27	35	51.5	343	6 US-10-131-826A-162	Sequence 162, App
28	35	51.5	607	7 US-11-024-959-381	Sequence 381, App
29	35	51.5	616	7 US-11-120-308-42	Sequence 42, Appl
30	35	51.5	1023	6 US-10-821-234-1377	Sequence 1377, Ap
31	35	51.5	1377	6 US-10-467-657-7922	Sequence 7922, Ap
32	34.5	50.7	216	7 US-11-082-389-32	Sequence 32, Appl
33	34	50.0	34	6 US-10-467-657-4010	Sequence 4010, Ap
34	34	50.0	108	6 US-10-821-234-1634	Sequence 1634, App
35	34	50.0	179	7 US-11-186-284-222	Sequence 222, App
36	34	50.0	199	6 US-10-821-234-1308	Sequence 1208, Ap
37	34	50.0	238	7 US-11-052-554A-51	Sequence 51, Appl
38	34	50.0	291	7 US-11-052-554A-52	Sequence 52, Appl
39	34	50.0	291	7 US-11-010-239-119	Sequence 119, App
40	34	50.0	300	7 US-11-151-601-17	Sequence 17, Appl
41	34	50.0	1185	6 US-10-877-346-7	Sequence 5572, Ap
42	33	48.5	35	6 US-10-467-657-5572	Sequence 307, App
43	33	48.5	49	7 US-11-145-861-307	Sequence 121, App
44	33	48.5	183	7 US-11-069-642-121	Sequence 3876, Ap
45	33	48.5	833	6 US-10-467-657-3876	

ALIGNMENTS

RESULT 1

US-11-102-883-18  
; Sequence 18, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lampung, Norbert  
; APPLICANT: Cramer, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods an  
; TITLE OF INVENTION: Uses Thereof  
; FILE REFERENCE: 03100234pa  
; CURRENT APPLICATION NUMBER: US/11/102,883  
; CURRENT FILING DATE: 2005-04-11  
; PRIOR APPLICATION NUMBER: EP02022774.0  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: PCT/EP2003/011190  
; PRIOR FILING DATE: 2003-10-09  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 18  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
US-11-102-883-18

Query Match 100.0%; Score 68; DB 7; Length 172;  
Best Local Similarity 100.0%; Pred. No. 6.3e-05;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12

Db 68 KISFPEGFPFKY 79

RESULT 2

US-11-102-883-26  
; Sequence 26, Application US/11102883  
; Publication No. US20050281816A1  
; GENERAL INFORMATION:  
; APPLICANT: Lampung, Norbert  
; APPLICANT: Cramer, Reto  
; APPLICANT: Fluckiger, Sabina  
; APPLICANT: Daigle, Isabelle  
; TITLE OF INVENTION: Modular Antigen Transporter Molecules (MAT Molecules) for  
; TITLE OF INVENTION: Modulating Immune Reactions, Associated Constructs, Methods an  
; TITLE OF INVENTION: Uses Thereof



; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS  
; FILE REFERENCE: UC083.1CP2CP2  
; CURRENT APPLICATION NUMBER: US/10/209,208  
; CURRENT FILING DATE: 2002-07-29  
; PRIOR APPLICATION NUMBER: 10/121,258  
; PRIOR FILING DATE: 2002-04-10  
; PRIOR APPLICATION NUMBER: 09/866,538  
; PRIOR FILING DATE: 2001-05-24  
; PRIOR APPLICATION NUMBER: 09/794,308  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 80  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: DeRed polypeptide variant "mRFP1"  
US-10-209-208-8

Query Match 61.8%; Score 42; DB 6; Length 225;  
Best Local Similarity 63.6%; Pred. No. 2;  
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISFPEGFPFK 11  
|:|||||:|:  
Db 84 KLSFPEGFKWE 94

RESULT 7  
US-10-209-208-20  
; Sequence 20, Application US/10209208  
; Publication No. US20050244921A1  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger  
; APPLICANT: Campbell, Robert  
; APPLICANT: Geoffrey Baird  
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS  
; FILE REFERENCE: UC083.1CP2CP2  
; CURRENT APPLICATION NUMBER: US/10/209,208  
; CURRENT FILING DATE: 2002-07-29  
; PRIOR APPLICATION NUMBER: 10/121,258  
; PRIOR FILING DATE: 2002-04-10  
; PRIOR APPLICATION NUMBER: 09/866,538  
; PRIOR FILING DATE: 2001-05-24  
; PRIOR APPLICATION NUMBER: 09/794,308  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 80  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 20  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: DeRed with I125R  
US-10-209-208-20

Query Match 61.8%; Score 42; DB 6; Length 225;  
Best Local Similarity 63.6%; Pred. No. 2;  
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISFPEGFPFK 11  
|:|||||:|:  
Db 84 KLSFPEGFKWE 94

RESULT 8  
US-10-209-208-24  
; Sequence 24, Application US/10209208  
; Publication No. US20050244921A1  
; GENERAL INFORMATION:

; APPLICANT: Tsien, Roger  
; APPLICANT: Campbell, Robert  
; APPLICANT: Geoffrey Baird  
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS  
; FILE REFERENCE: UC083.1CP2CP2  
; CURRENT APPLICATION NUMBER: US/10/209,208  
; CURRENT FILING DATE: 2002-07-29  
; PRIOR APPLICATION NUMBER: 10/121,258  
; PRIOR FILING DATE: 2002-04-10  
; PRIOR APPLICATION NUMBER: 09/866,538  
; PRIOR FILING DATE: 2001-05-24  
; PRIOR APPLICATION NUMBER: 09/794,308  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 80  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: DeRed polypeptide variant "T1" with I125R mutation  
US-10-209-208-24

Query Match 61.8%; Score 42; DB 6; Length 225;  
Best Local Similarity 63.6%; Pred. No. 2;  
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISFPEGFPFK 11  
|:|||||:|:  
Db 84 KLSFPEGFKWE 94

RESULT 9  
US-10-209-208-79  
; Sequence 79, Application US/10209208  
; Publication No. US20050244921A1  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger  
; APPLICANT: Campbell, Robert  
; APPLICANT: Geoffrey Baird  
; TITLE OF INVENTION: FLUORESCENT PROTEIN VARIANTS AND METHODS  
; FILE REFERENCE: UC083.1CP2CP2  
; CURRENT APPLICATION NUMBER: US/10/209,208  
; CURRENT FILING DATE: 2002-07-29  
; PRIOR APPLICATION NUMBER: 10/121,258  
; PRIOR FILING DATE: 2002-04-10  
; PRIOR APPLICATION NUMBER: 09/866,538  
; PRIOR FILING DATE: 2001-05-24  
; PRIOR APPLICATION NUMBER: 09/794,308  
; PRIOR FILING DATE: 2001-02-26  
; NUMBER OF SEQ ID NOS: 80  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 79  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: DeRed polypeptide variant "mRFP1.1"  
US-10-209-208-79

Query Match 61.8%; Score 42; DB 6; Length 225;  
Best Local Similarity 63.6%; Pred. No. 2;  
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISFPEGFPFK 11  
|:|||||:|:  
Db 84 KLSFPEGFKWE 94

RESULT 10  
US-11-218-880-1

```
; Sequence 1, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR FILING DATE: 2001-02-26
; PRIOR FILING DATE: 2001-02-26
; PRIOR FILING DATE: 2001-02-26
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Discosoma sp.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(225)
; OTHER INFORMATION: wild-type DeRed
US-11-218-880-1
```

```
Query Match 61.8%; Score 42; DB 7; Length 225;
Best Local Similarity 63.6%; Pred. No. 2;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KISFPEGFPFK 11
|:|||||:
Db 84 KLSFPEGFKWE 94
```

```
RESULT 11
US-11-218-880-4
; Sequence 4, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DeRed polypeptide variant "T1"
US-11-218-880-4
```

```
Query Match 61.8%; Score 42; DB 7; Length 225;
Best Local Similarity 63.6%; Pred. No. 2;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KISFPEGFPFK 11
|:|||||:
Db 84 KLSFPEGFKWE 94
```

```
RESULT 12
US-11-218-880-8
; Sequence 8, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DeRed polypeptide variant "mRFP1"
US-11-218-880-8
```

```
Query Match 61.8%; Score 42; DB 7; Length 225;
Best Local Similarity 63.6%; Pred. No. 2;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KISFPEGFPFK 11
|:|||||:
Db 84 KLSFPEGFKWE 94
```

```
RESULT 13
US-11-218-880-20
; Sequence 20, Application US/11218880
; Publication No. US20060003420A1
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
; FILE REFERENCE: UC083.1CP2CP1
; CURRENT APPLICATION NUMBER: US/11/218,880
; CURRENT FILING DATE: 2005-09-01
; PRIOR APPLICATION NUMBER: US/10/121,258
; PRIOR FILING DATE: 2002-04-10
; PRIOR APPLICATION NUMBER: 09/794,308
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/866,538
; PRIOR FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 20
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DeRed with I125R
US-11-218-880-20
```

```
Query Match 61.8%; Score 42; DB 7; Length 225;
Best Local Similarity 63.6%; Pred. No. 2;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 KISFPEGFPFK 11
|:|||||:
Db 84 KLSFPEGFKWE 94
```

Search completed: January 28, 2006, 06:44:48  
Job time : 13.3333 secs

Sat Jan 28 18:36:01 2006

RESULT 14  
US-11-218-880-24  
; Sequence 24, Application US/11218880  
; Publication No. US20060003420A1  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger  
; APPLICANT: Campbell, Robert  
; TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT  
; FILE REFERENCE: UC083.1CP2CPI  
; CURRENT APPLICATION NUMBER: US/11/218,880  
; CURRENT FILING DATE: 2005-09-01  
; PRIOR FILING DATE: 2002-04-10  
; PRIOR APPLICATION NUMBER: US/10/121,258  
; PRIOR FILING DATE: 2001-02-26  
; PRIOR APPLICATION NUMBER: 09/794,308  
; PRIOR FILING DATE: 2001-05-24  
; PRIOR APPLICATION NUMBER: 09/866,538  
; NUMBER OF SEQ ID NOS: 78  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: DsRed polypeptide variant "T1" with I125R mutation  
US-11-218-880-24

Query Match 61.8%; Score 42; DB 7; Length 225;  
Best Local Similarity 63.6%; Pred. No. 2;  
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISFPEGFPFK 11  
|:|||||:  
DB 84 KLSFPEGFKWE 94

RESULT 15  
US-11-100-988-2  
; Sequence 2, Application US/11100988  
; Publication No. US20060008878A1  
; GENERAL INFORMATION:  
; APPLICANT: Glick, Benjamin S.  
; APPLICANT: Bevis, Brooke  
; APPLICANT: Strongin, Daniel E.  
; APPLICANT: Baker, David  
; APPLICANT: Scalley-Kim, Michelle  
; TITLE OF INVENTION: MONOMERIC RED FLUORESCENT PROTEINS  
; FILE REFERENCE: 092234-9002-US01  
; CURRENT APPLICATION NUMBER: US/11/100,988  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: US 60/560,340  
; PRIOR FILING DATE: 2004-04-07  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 2  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: wild-type red fluorescent protein based on Discosoma species  
US-11-100-988-2

Query Match 61.8%; Score 42; DB 7; Length 225;  
Best Local Similarity 63.6%; Pred. No. 2;  
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 KISFPEGFPFK 11  
|:|||||:  
DB 84 KLSFPEGFKWE 94

**THIS PAGE BLANK (USPTO)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 28, 2006, 06:23:08 ; Search time 79.6667 Seconds  
(without alignments)  
62.937 Million cell updates/sec

Title: US-09-897-042-21  
Perfect score: 68  
Sequence: 1 KISFPEGFPFKY 12

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues  
Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB.pcp:\*  
2: /cgn2\_6/prodata/1/pubpaa/US08\_PUBCOMB.pcp:\*  
3: /cgn2\_6/prodata/1/pubpaa/US09\_PUBCOMB.pcp:\*  
4: /cgn2\_6/prodata/1/pubpaa/US10A\_PUBCOMB.pcp:\*  
5: /cgn2\_6/prodata/1/pubpaa/US10B\_PUBCOMB.pcp:\*  
6: /cgn2\_6/prodata/1/pubpaa/US11\_PUBCOMB.pcp:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	68	100.0	12	3	US-09-897-042-21
2	68	100.0	31	4	US-10-026-911-3
3	68	100.0	125	5	US-10-799-514-5
4	68	100.0	159	3	US-09-981-009B-1
5	68	100.0	159	3	US-09-847-208-34
6	68	100.0	159	3	US-09-847-208-38
7	68	100.0	159	3	US-09-847-208-40
8	68	100.0	159	3	US-09-957-806A-6
9	68	100.0	159	4	US-10-440-516-47
10	68	100.0	160	4	US-10-440-516-2
11	68	100.0	160	4	US-10-440-516-3
12	68	100.0	160	4	US-10-440-516-4
13	68	100.0	160	4	US-10-440-516-5
14	68	100.0	160	4	US-10-440-516-6
15	68	100.0	160	4	US-10-440-516-7
16	68	100.0	160	4	US-10-440-516-8
17	68	100.0	160	5	US-10-799-514-7
18	68	100.0	160	5	US-10-809-689-87
19	68	100.0	161	4	US-10-440-516-44
20	68	100.0	161	4	US-10-440-516-45
21	68	100.0	195	5	US-10-799-514-18
22	68	100.0	195	5	US-10-799-514-20
23	65	95.6	159	3	US-09-847-208-36
24	65	95.6	159	3	US-09-847-208-39
25	65	95.6	159	3	US-09-847-208-42
26	62	91.2	159	3	US-09-847-208-37
27	62	91.2	159	4	US-10-001-245-2

28	62	91.2	159	4	US-10-001-245-3	Sequence 3, Appli
29	62	91.2	159	4	US-10-001-245-5	Sequence 5, Appli
30	62	91.2	159	4	US-10-001-245-92	Sequence 92, Appli
31	62	91.2	159	4	US-10-719-553-37	Sequence 37, Appli
32	62	91.2	159	4	US-10-698-855-5	Sequence 5, Appli
33	62	91.2	160	4	US-10-001-245-1	Sequence 1, Appli
34	62	91.2	160	4	US-10-001-245-6	Sequence 6, Appli
35	62	91.2	160	4	US-10-001-245-8	Sequence 8, Appli
36	62	91.2	160	4	US-10-001-245-10	Sequence 10, Appli
37	62	91.2	160	4	US-10-440-516-1	Sequence 1, Appli
38	57	84.6	161	4	US-10-440-516-43	Sequence 43, Appli
39	57	83.8	159	3	US-09-847-208-8	Sequence 8, Appli
40	57	83.8	159	3	US-09-847-208-35	Sequence 35, Appli
41	57	83.8	159	3	US-09-847-208-41	Sequence 41, Appli
42	57	83.8	159	3	US-09-847-208-43	Sequence 43, Appli
43	57	83.8	159	4	US-10-001-245-4	Sequence 9, Appli
44	57	83.8	159	4	US-10-001-245-9	Sequence 9, Appli
45	57	83.8	160	4	US-10-001-245-7	Sequence 7, Appli

ALIGNMENTS

RESULT 1  
US-09-897-042-21  
; Sequence 21, Application US/09897042  
; Patent No. US20020018779A1  
; GENERAL INFORMATION:  
; APPLICANT: VALENTA, Rudolf  
; APPLICANT: VRTALIA, Susanne  
; APPLICANT: VANGELISTA, Luca  
; APPLICANT: EICHLER, Hans-Georg  
; APPLICANT: SPERR, Wolfgang R.  
; APPLICANT: VALENT, Peter  
; APPLICANT: EBNER, Christof  
; APPLICANT: KRAFT, Dietrich  
; APPLICANT: GRONLUND, Hans  
; TITLE OF INVENTION: NON-ANAPHYLACTIC FORMS OF ALLERGENS AND THEIR USE  
; FILE REFERENCE: 1614-251P  
; CURRENT APPLICATION NUMBER: US/09/897,042  
; CURRENT FILING DATE: 2001-07-07  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 21  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Betula sp.  
US-09-897-042-21

Query Match 100.0%; Score 68; DB 3; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.00026;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12  
|||||  
Db 1 KISFPEGFPFKY 12

RESULT 2  
US-10-026-911-3  
; Sequence 3, Application US/10026911  
; Publication No. US20030078201A1  
; GENERAL INFORMATION:  
; APPLICANT: Focke, Margarete  
; APPLICANT: Mahler, Vera  
; APPLICANT: Sperr, Wolfgang R.  
; APPLICANT: Valent, Peter  
; APPLICANT: Kraft, Dietrich  
; APPLICANT: Valenta, Rudolf  
; TITLE OF INVENTION: Allergy Vaccines and Their Preparation  
; FILE REFERENCE: 0273-0005  
; CURRENT APPLICATION NUMBER: US/10/026,911  
; CURRENT FILING DATE: 2002-07-24

```
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: solvent-exposed peptide
US-10-026-911-3

Query Match      100.0%; Score 68; DB 4; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.00069;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12
Db 8 KISFPEGFPFKY 19

RESULT 3
US-10-799-514-5
; Sequence 5, Application US/10799514
; Publication No. US20040241178A1
; GENERAL INFORMATION:
; APPLICANT: Spertini, Francois
; APPLICANT: Cortesey, Blaise
; TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
; FILE REFERENCE: 25720-502
; CURRENT APPLICATION NUMBER: US/10/799,514
; CURRENT FILING DATE: 2004-03-12
; PRIOR APPLICATION NUMBER: 60/455,004
; PRIOR FILING DATE: 2003-03-14
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-10-799-514-5

Query Match      100.0%; Score 68; DB 5; Length 125;
Best Local Similarity 100.0%; Pred. No. 0.0028;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12
Db 56 KISFPEGFPFKY 67

RESULT 4
US-09-981-009B-1
; Sequence 1, Application US/09981009B
; Publication No. US20030041354A1
; GENERAL INFORMATION:
; APPLICANT: Kjaerulff, Soren
; APPLICANT: Roggen, Erwin
; TITLE OF INVENTION: Transgenic Plants
; FILE REFERENCE: 10082.200-US
; CURRENT APPLICATION NUMBER: US/09/981,009B
; CURRENT FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-981-009B-1

Query Match      100.0%; Score 68; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12
Db 55 KISFPEGFPFKY 66

RESULT 5
US-09-847-208-34
; Sequence 34, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-34

Query Match      100.0%; Score 68; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12
Db 55 KISFPEGFPFKY 66

RESULT 6
US-09-847-208-38
; Sequence 38, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-38

Query Match      100.0%; Score 68; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KISFPEGFPFKY 12
Db 55 KISFPEGFPFKY 66

RESULT 7
US-09-847-208-40
; Sequence 40, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 40
; TYPE: PRT
; LENGTH: 159
; ORGANISM: Betula verrucosa (White birch) (Betula pendula)
US-09-847-208-40

Query Match      100.0%; Score 68; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISFPEGFPFKY 12
DB      55 KISFPEGFPFKY 66

RESULT 8
US-09-957-806A-6
; Sequence 6, Application US/09957806A
; Publication No. US20050181446A1
; GENERAL INFORMATION:
; APPLICANT: Roggen, Erwin
; APPLICANT: Ernst, Steffen
; APPLICANT: Svendsen, Allan
; APPLICANT: Friis, Eaben
; APPLICANT: Osten, Claus
; TITLE OF INVENTION: PROTEIN VARIANTS HAVING MODIFIED IMMUNOGENICITY
; FILE REFERENCE: 10021.204-US
; CURRENT APPLICATION NUMBER: US/09/957,806A
; CURRENT FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 248
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula pendula
US-09-957-806A-6

Query Match      100.0%; Score 68; DB 3; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISFPEGFPFKY 12
DB      55 KISFPEGFPFKY 66

RESULT 9
US-10-440-516-47
; Sequence 47, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 47
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Betula verrucosa
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(160)
; OTHER INFORMATION: Point mutated Bet v 1 allergen
US-10-440-516-3

Query Match      100.0%; Score 68; DB 4; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISFPEGFPFKY 12
DB      56 KISFPEGFPFKY 67

RESULT 11
US-10-440-516-3
; Sequence 3, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Betula verrucosa
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(160)
; OTHER INFORMATION: Point mutated Bet v 1 allergen
US-10-440-516-3

; APPLICANT: Betula verrucosa
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(159)
; OTHER INFORMATION: Point mutated Bet v 1 allergen (amino acid deletion of residue
US-10-440-516-47

Query Match      100.0%; Score 68; DB 4; Length 159;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISFPEGFPFKY 12
DB      55 KISFPEGFPFKY 66

RESULT 10
US-10-440-516-2
; Sequence 2, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Betula verrucosa
US-10-440-516-2

Query Match      100.0%; Score 68; DB 4; Length 160;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KISFPEGFPFKY 12
DB      56 KISFPEGFPFKY 67

RESULT 11
US-10-440-516-3
; Sequence 3, Application US/10440516
; Publication No. US20040043438A1
; GENERAL INFORMATION:
; APPLICANT: Holm, Jens
; APPLICANT: Ferreras, Mercedes
; TITLE OF INVENTION: Allergen mutants
; FILE REFERENCE: 04305/100L446-US1
; CURRENT APPLICATION NUMBER: US/10/440,516
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 60/381,440
; PRIOR FILING DATE: 2002-05-16
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 160
; TYPE: PRT
; ORGANISM: Betula verrucosa
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(160)
; OTHER INFORMATION: Point mutated Bet v 1 allergen
US-10-440-516-3
```

Query Match 100.0%; Score 68; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0036;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISFPEGPPFKY 12  
|||||  
Db 55 KISFPEGPPFKY 66

RESULT 12  
US-10-440-516-4  
; Sequence 4, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 4  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-4

Query Match 100.0%; Score 68; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0036;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISFPEGPPFKY 12  
|||||  
Db 55 KISFPEGPPFKY 66

RESULT 13  
US-10-440-516-5  
; Sequence 5, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 5  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-5

Query Match 100.0%; Score 68; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0036;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISFPEGPPFKY 12

Db 55 KISFPEGPPFKY 66  
|||||

RESULT 14  
US-10-440-516-6  
; Sequence 6, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 6  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-6

Query Match 100.0%; Score 68; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0036;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISFPEGPPFKY 12  
|||||  
Db 55 KISFPEGPPFKY 66

RESULT 15  
US-10-440-516-7  
; Sequence 7, Application US/10440516  
; Publication No. US20040043438A1  
; GENERAL INFORMATION:  
; APPLICANT: Holm, Jens  
; APPLICANT: Ferreras, Mercedes  
; TITLE OF INVENTION: Allergen mutants  
; FILE REFERENCE: 04305/100L446-US1  
; CURRENT APPLICATION NUMBER: US/10/440,516  
; CURRENT FILING DATE: 2003-05-16  
; PRIOR APPLICATION NUMBER: US 60/381,440  
; PRIOR FILING DATE: 2002-05-16  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 7  
; LENGTH: 160  
; TYPE: PRT  
; ORGANISM: Betula verrucosa  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(160)  
; OTHER INFORMATION: Point mutated Bet v 1 allergen  
US-10-440-516-7

Query Match 100.0%; Score 68; DB 4; Length 160;  
Best Local Similarity 100.0%; Pred. No. 0.0036;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KISFPEGPPFKY 12  
|||||  
Db 55 KISFPEGPPFKY 66

Search completed: January 28, 2006, 06:43:58

Job time : 79.6667 secs

---

**THIS PAGE BLANK (USPTO)**